

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. M173		3. EFFECTIVE DATE 10/1/98		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TUNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Suite 710 Washington, D.C. 20005				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 13) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**


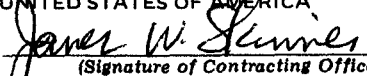
(W)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	In accordance with Article 32, "Allowable Costs and Management Fee"
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) JOHN G. MULLIN SR VICE PRESIDENT, OPERATIONS		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 10/29/99	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 10-29-99

1. The purpose of this modification is to:

- a. Establish the management fee to be paid during the period October 1, 1998 through September 30, 1999 at \$1,926,185.
- b. Revise paragraph b of Article 32 entitled *DEAR 970.5204-13 Allowable Costs and Management Fee* as follows:

Management Fee:

The management fee payable to the Contractor for the performance of the work under his contract with respect to the period October 1, 1998, to and including September 30, 1999 is \$1,926,185. The parties further agree that: 1) \$350,000 of fiscal year 1996 management fee, \$100,000 of the fiscal year 1997 management fee, \$0 of the fiscal year 1998 management fee, and \$0 of the fiscal year 1999 management fee are the "risk funds" provided to the contractor to cover the additional financial risks that the contractor has assumed pursuant to section (e)(17)(iv)(C) of Article 32 "Allowable Costs and Management Fee," Article 35 "Costs Associated with Whistleblower Actions," section (f)(1)(C) of Article 68 "Property" Note that the total funds provided to create the "reserve fund" in FY 1996 and FY 1997 equate to \$450,000; 2) Any positive difference between the "reserve fund" provided in fiscal years 1996 and 1997 and the actual expenditures to cover the financial risk described above (or agreed upon encumbrances due to pending claims) in fiscal year 1996, 1997, 1998 and 1999 would be carried over and treated as a credit toward establishing the appropriate "reserve fund" in future fiscal years; and, 3) During the last year of the contract (and any extension thereto), the amount held in the "reserve fund" will be treated as a credit toward the last year's fee negotiations. It is the intent of both parties that the contractor will not keep any of the unused "reserve funds" upon expiration of this contract or any subsequent extension, thereto.

2. A summary of the "reserve fund" paid to the contractor by fiscal year is as follows:

FY96 - October 1, 1995 through September 30, 1996	\$350,000
FY97 - October 1, 1996 through September 30, 1997	\$100,000
FY98 - October 1, 1997 through September 30, 1998	-0-
FY99 - October 1, 1998 through September 30, 1999	-0-
TOTAL:	\$450,000

3. A summary of the management fee paid to the contractor by fiscal year is as follows:

FY88 - October 1, 1987 through September 30, 1988	\$ 900,000
FY89 - October 1, 1988 through September 30, 1989	\$1,040,000
FY90 - October 1, 1989 through September 30, 1990	\$1,070,000
FY91 - October 1, 1990 through September 30, 1991	\$1,140,000
FY92 - October 1, 1991 through September 30, 1992	\$1,217,000
FY93 - October 1, 1992 through September 30, 1993	\$1,270,160
FY94 - October 1, 1993 through September 30, 1994	\$1,292,073
FY95 - October 1, 1994 through September 30, 1995	\$1,337,040
FY96 - October 1, 1995 through September 30, 1996	\$2,264,110
FY97 - October 1, 1996 through September 30, 1997	\$1,970,209
FY98 - October 1, 1997 through September 30, 1998	\$1,874,633
FY99 - October 1, 1998 through September 30, 1999	<u>\$1,926,185</u>
TOTAL:	\$17,301,410

4. All other terms and conditions remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1a

2. AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

M174

Nov. 1, 1999

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Department of Energy
TJNAF Site Office
12000 Jefferson Avenue
Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research
Association, Inc.
1200 New York Avenue, NW
Suite 710
Washington, D.C. 20005

(f)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 13)

August 3, 1984

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(f) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X 41 U.S.C. 253(c) (b); FAR 6-302-3(A) (2) (ii); the Secretary's Decision Memorandum dated August 14, 1998

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to establish the management fee at \$164,929.59 for the month of October. This one month payment of management fee is due to the one month contract extension authorized by Headquarters in accordance with Modification M169.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

JOHN G. MULLIN

SR. VICE PRESIDENT, OPERATIONS

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

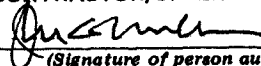
James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED


(Signature of person authorized to sign)

10/29/99

BY 
(Signature of Contracting Officer)

10/29/99

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1a
2. AMENDMENT/MODIFICATION NO. <u>M175</u>		3. EFFECTIVE DATE <u>Nov. 1, 1999</u>		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Suite 710 Washington, D.C. 20005				9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. <u>DE-AC05-84ER40150</u> 10B. DATED (SEE ITEM 13) <u>August 3, 1984</u>	
CODE		FACILITY CODE		X	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A


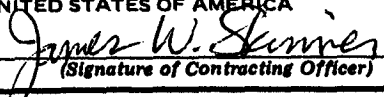
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(u)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	Public Law 98-369, FAR 6.302-3(a)(2)(ii), the Secretary's Decision Memorandum dated August 14, 1998, and the HQ Office of Management Systems approval letter dated October 28, 1999
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to revise the subject contract in its entirety (copy attached) and extend the period of performance until September 30, 2004.

15A. NAME AND TITLE OF SIGNER (Type or print) Jerry P. Draayer, President		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 10/29/99	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 10-29-99

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE OF PAGES
1 3

2. AMENDMENT/MODIFICATION NO. A176	3. EFFECTIVE DATE See Block 16C.	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Suite 710 Washington, D.C. 20005	(u)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
	X	10B. DATED (SEE ITEM 13) August 3, 1984
CODE	FACILITY CODE	

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☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$55,502,407

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(u)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)
X	Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY James W. Skinner (Signature of Contracting Officer)	16C. DATE SIGNED 11/30/99
(Signature of person authorized to sign)			

1. The amount obligated under this contract is increased by \$55,502,407 and is changed from \$899,123,372.92 to \$954,625,784.92. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	4,283,000.00	5,700,000.00	10,483,575.00
WA	KB0102011	31,185,620.00	40,960,000.00	80,620,411.00
WA	KB0102011 (AIP A001)	975,000.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	225,000.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	4,350,000.00	5,800,000.00	14,330,041.00
WA	KB0102012	13,728,000.00	18,075,000.00	36,721,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	403,287.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	15,000.00	15,000.00	238,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	37,500.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	300,000.00	400,000.00	400,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	150,000.00
SA	YN1901000	0.00	0.00	99,000.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
	TOTAL	\$55,502,407.00	\$73,135,000.00	\$954,625,784.92

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. A177		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO.		DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 13)		August 3, 1984	
CODE		FACILITY CODE					

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12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$282,500

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
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	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 12/30/99
(Signature of person authorized to sign)			

1. The amount obligated under this contract is increased by \$282,500 and is changed from \$954,625,784.92 to \$954,908,284.92. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,700,000.00	10,483,575.00
WA	KB0102011	0.00	40,960,000.00	80,620,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	300,000.00	6,100,000.00	14,630,041.00
WA	KB0102012	0.00	18,075,000.00	36,721,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	7,500.00	22,500.00	245,969.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	400,000.00	400,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	150,000.00
SA	YN1901000	0.00	0.00	99,000.00
WA	EL1703000(OPFWP #EL17039)	(25,000.00)	(25,000.00)	0.00
	TOTAL	<u>\$282,500.00</u>	<u>\$73,417,500.00</u>	<u>\$954,908,284.92</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE OF PAGES 1 1 3	
2. AMENDMENT/MODIFICATION NO. A178		3. EFFECTIVE DATE See Block 16C	
4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		9A. AMENDMENT OF SOLICITATION NO.	
		9B. DATED (SEE ITEM 11)	
		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
		10B. DATED (SEE ITEM 13) August 3, 1984	
CODE		FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$380,152

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(v)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)
X	Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or Print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or Print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 1-31-00

Contract No. DE-AC05-84ER40150

Modification No. A178

Page 2 of 3

1. The amount obligated under this contract is increased by \$380,152 and is changed from \$954,908,284.92 to \$955,288,436.92. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	(20,000.00)	5,680,000.00	10,463,575.00
WA	KB0102011	(155,000.00)	40,805,000.00	80,465,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	(65,000.00)	18,010,000.00	36,656,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB0102000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU89ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00

Contract No. DE-AC05-84ER40150

Modification No. A178

Page 3 of 3

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	7,500.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	250,000.00	250,000.00	849,853.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	400,000.00	400,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	338,000.00	338,000.00	488,000.00
SA	YN1901000	(348.00)	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	25,000.00	0.00	25,000.00
	TOTAL	<u>\$380,152.00</u>	<u>\$73,797,852.00</u>	<u>\$955,288,436.92</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 59	
2. AMENDMENT/MODIFICATION NO. M179		3. EFFECTIVE DATE 10/1/99		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1320 19th Street, NW Suite 800 Washington, D.C. 20036-1610		(W)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
		X		10B. DATED (SEE ITEM 13) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.


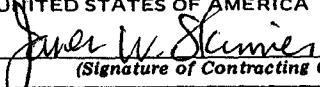
(W)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: In accordance with clause H.32 entitled "Use of Objective Standards of Performance, Self Assessment and Performance Evaluation" and Clause H.31 "Performance Measure Review"
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

- The purpose of this modification is to revise Appendix B (Performance Evaluation by Performance -Based Metrics) in its entirety and establish the Performance Evaluation Plan for FY 2000.
- All other terms and conditions remain unchanged and in full force and effect.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) John Mullin Sr. Vice-President, Operations		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 2/23/00	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 2-23-00

JEFFERSON LAB

FY2000

APPENDIX B

JEFFERSON LAB APPENDIX B

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Performance Evaluation by Performance-Based Metrics Overview

General

This Appendix sets forth the basis upon which an evaluation of the performance of the Thomas Jefferson National Accelerator Facility (otherwise known as "Jefferson Lab;" formerly CEBAF) performance will be based as required by contract Article 6 (Use of Objective Standards of Performance, Self Assessment and Performance Evaluation) and Article 7 (Performance Measure Review) of the contract. The evaluation procedure described below utilizes a set of "key indicators" which will broadly measure the laboratory's performance in seven critical areas. Associated with most "key indicators" (both peer reviews and performance metrics) is a set of "secondary indicators" which will measure the laboratory's performance in a more detailed way and extend the validity of each respective "key indicator." As it relates to Article 6 of the contract and the peer review process for the Science and Technology, Business and Administrative Practices and Responsible Institutional Management sections of the Performance Evaluation Plan, the parties agree that: (i) the panel will be selected by mutual agreement; and (ii) DOE will concur with the official charge to the panel prior to issuance by SURA.

Table B.1, Performance Objectives and Their Key Indicators, shows the seven performance objectives of this contract and their corresponding key indicators. Following this table are seven sections elaborating on each key indicator and listing the associated secondary indicators with established performance goals, where appropriate. A system for scoring performance in the seven categories and for integrating these scores into an overall evaluation rating for each performance period is provided under the subheading "Scoring Methodology." The parties agree to adhere to this system in arriving at the overall evaluation of the laboratory's performance against these measures. The schedule for performing the Laboratory evaluation is provided under the subheading "Appendix B Annual Appraisal Timeline." It is the intent of the parties to strictly adhere to this schedule although either party may request a revision to the proposed schedule.

For FY00, performance measures have been established in accordance with the annual reassessment process outlined in the paragraph entitled "Periodic Reassessment" and the FY99 results. The FY00 performance goals have been set based on: (i) the outcome of the FY99 performance measures in relation to the FY99 performance goals; and, (ii) other pertinent data.

Goal Setting

The primary considerations for selecting performance measures and setting goals at Jefferson Lab are:

- Performance measures should provide accurate, valid measures of performance in areas of importance to DOE and Laboratory management.

- The total set of measures should reflect priorities of DOE and Laboratory management and a proper balance of cost-benefit and return-on-investment.
- Setting goals that optimize the overall Laboratory mission frequently yields a more desirable result than goals which stress maximum quantitative performance in narrow areas. For instance, simply pushing for maximum accelerator availability might penalize highly specialized or difficult experiments with high scientific merit or impede accelerator development. In other areas, pushing for unreasonably high quantitative goals might divert limited resources from other more mission-oriented activities with little or no benefit.
- The broader the base of comparison of Jefferson Lab's performance with similar institutions, the greater the possibility of learning improved ways of performing activities and how important it is to perform those activities.
- Comparison with other facilities is most effective when objectives, constraints and hazards at the facilities are similar, or normalization is relatively simple.
- The performance measures, the comparison base, and the goals should be selected keeping in mind the ease of obtaining current comparison data.

Given these considerations, the DOE and SURA have agreed that the primary use of performance measures will be to compare the Laboratory's performance against the mission objectives of the Laboratory taking into account the maturity of its various programs (e.g., the criteria to achieve an "outstanding" rating for a mature program would be different from that for a young program). The allocation of points among the performance objective categories is the first indication of this value judgment. The DOE/Laboratory Performance Measurement Teams were advised to select as broad a comparison area as practical in order to maximize the opportunity to improve systems and processes, but to define the performance measures and set the goals with the intent of enhancing the mission of the Jefferson Lab. While this approach requires a considerable exercise of judgment and somewhat limits a direct comparison with other facilities based on score, it presents the best opportunity to improve the overall performance of the Laboratory. This approach results in a mixture of broad performance measures where Laboratory performance can be quantitatively compared with other DOE and/or industrial facilities (such as property loss ratios), and measures that are much more unique to the mission of this Laboratory (such as Reliable Operations, Production of Scientific and Technical Manpower and Technology Transfer). A practice used extensively at Jefferson Lab that combines broad measures with measures very closely tailored to the mission of the Laboratory is the Peer Review concept. Depending on the function or category under review, technical and/or management personnel with similar responsibilities at other facilities review the Laboratory's performance as prescribed in a carefully constructed charter and arrive at a score or adjectival rating for that function or category. This practice makes available the experience and expertise of nationally recognized experts in various fields and provides maximum opportunity for knowledgeable feedback leading to performance improvement.

Performance Report

The Contractor will report on the results of its performance as defined by Appendix B at the end of each fiscal year. This Performance Report should include for each performance category, in addition to actual performance metric scores and/or peer review results, an overview self-assessment which includes: a brief description of major achievements; significant strengths and weaknesses; the status of responses to recommendations from the Peer Reviews, an assessment of whether the performance measures were valid indicators of performance; other lessons learned; principal areas of emphasis for improvement for the following fiscal year; and any recommended changes in performance measures or goals for the following fiscal year. A discussion of the Laboratory's overall performance and the major areas across the entire Lab that SURA perceives as the most important focus areas for the upcoming performance period will also be included.

The Department will use the Contractor's Performance Report along with other inputs to evaluate the Contractor's overall performance for each evaluation period. These other inputs include observations and results of inspections conducted by the Site Office staff, and programmatic/functional appraisals and reviews coordinated by the Site Office. As a means of incorporating these additional considerations, the parties have agreed that the Contracting Officer will develop an overlay performance report which will supplement the product of the performance measure process. This report will capture the highlights of the DOE Site Office observations/reviews, results of DOE appraisals, as well as other important information (including mitigating factors or events that may be outside the control of the contractor) that will be used to balance the overall performance assessment for the year. This overlay report will include a discussion of performance against regulatory and contract requirements that were not defined in terms of performance measures. The parties agree that the results from these assessment inputs could change the category rating and/or overall performance rating (up or down) by as much as one performance level.

Periodic Reassessment

As described in Article 6, the parties also agree to a reassessment of these performance measures prior to the beginning of each evaluation period. In particular, the parties agree to:

1. Assess the validity of each respective indicator as an accurate and meaningful reflector of performance (using the detailed secondary indicators and other criteria) and to replace them with more appropriate indicators if necessary,
2. Consider adding to or subtracting from the complement of secondary indicators in order to more meaningfully and accurately track vital performance objectives or to correct deficiencies in the more global key indicators,
3. Consider adding or subtracting key indicators or secondary indicators as appropriate in response to the evolving requirements of DOE; in particular, both parties undertake to replace DOE Directives whenever feasible by performance metrics.

Scoring Methodology

The parties have agreed to the following scoring methodology:

- A. POINT ALLOCATION: A 1000-point scale will be distributed among the seven performance objective categories as follows:

1. Outstanding Science and Technology	300 points
2. Reliable Operations	250 points
3. Production of Scientific and Technical Manpower	75 points
4. Corporate Citizenship	75 points
5. Quality Performance in EH&S	100 points
6. Business and Administrative Practices	100 points
7. Responsible Institutional Management	100 points

Within each of the seven performance objective categories, the individual points have been allocated between the key indicator and the secondary indicators.

- B. POINT SCALE: A grading scale will be used for rating each category and the overall performance evaluation as follows:

<u>Adjectival Rating</u>	<u>% of Points</u>
Outstanding	90% to 100%
Excellent	80% to < 90%
Good	70% to < 80%
Marginal	60% to < 70%
Unsatisfactory (Poor)	50% to < 60%
Unsatisfactory (Failing)	<50%

After applying the appropriate percentage to the points assigned for each indicator, accuracy at the one decimal point level will be retained.

- C. RATING EACH CATEGORY: The following weighted average approach will be used to rate each of the seven performance objective categories:

1. For each performance measure, multiply performance percent achieved times the assigned points to arrive at the awarded points.
2. Sum the assigned points and sum the awarded points for all performance measures to arrive at a total for each (i.e., total assigned points and total awarded points).
3. Divide the total awarded points for the category by the total assigned points for the category and convert to a percentage.

4. Arrive at an overall adjectival rating for the category by using the point scale in paragraph (B) above.

In years where a new indicator which requires baselining might be added to the set, the Laboratory evaluation score will be based on paragraph (D) below

D. OVERALL PERFORMANCE EVALUATION: The following methodology will be used to determine the overall performance rating:

1. Sum the assigned points and sum the awarded points for each performance measure being scored in the performance period. (For odd years, the same score achieved in Responsible Institutional Management from the prior year will be carried forward and included in the performance evaluation calculation).
2. Divide the awarded points by the assigned points. This percentage of 1000 is the laboratory's overall score for the evaluation period. This percentage is also used in Step #5, Section C, to provide a score for the baselined areas.
3. Arrive at the overall adjectival performance rating for the contract in accordance with Section B, above, on the point scale.
4. Incorporate the results of DOE Site Office overlay performance report as described in the paragraph entitled "Performance Report" on p.3 of this Appendix.

Contract Performance Annual Appraisal Timeline

<u>DATE</u>	<u>ELEMENT</u>
7/1/FY-1	Functional teams from DOE and SURA develop Performance Metrics.
9/1/FY-1	Performance Metrics due to the DOE Site Office Manager.
10/1/FY	DOE transmits final Performance Metrics to SURA.
4/15/FY	DOE performs mid-year status review.
9/30/FY	Evaluation period ends.
10/31/FY+1	SURA submits Performance Report
11/15/FY+1	DOE develops draft evaluation and transmits to SURA.
12/1/FY+1	SURA submits comments on draft evaluation.
12/15/FY+1	DOE transmits final report to SURA.

Table B.1: Performance Objectives and Their Key Indicators

Objective	Key Indicator	Points
1. Outstanding Science and Technology	Peer Review	300
2. Reliable Operations	Delivered Physics Research Operations	250
3. Production of Scientific and Technical Manpower	<ul style="list-style-type: none"> • Number of Student Years on Jefferson Lab-Related Research Activities • Total Number of Advanced Degrees Based on Jefferson Lab Research 	75
4. Corporate Citizenship	<ul style="list-style-type: none"> • Public Participation • Non-DOE Investment in Jefferson Lab Initiatives 	75
5. Quality Performance in Environment, Health & Safety	<ul style="list-style-type: none"> • Cost of Injuries • Environmental Permit Exceedences 	100
6. Quality of Business and Administrative Practices	Peer Review	100
7. Responsible Institutional Management	Peer Review	100
		1000

1. Outstanding Science and Technology

1A. Overview

Objective: To produce outstanding science and technology.

Key Indicator (300 points):

1.0 Peer Review

General Charge to the Peer Review Panel: Using inputs from other science and technology program managers who sponsor significant work at Jefferson Lab and after consultation with SURA representatives, the DOE Division of Nuclear Physics (DNP) will issue the charge to the panel. Principally the charge will be to evaluate Jefferson Lab's contribution to the goals of the National Nuclear Physics Program, to rate the Jefferson Lab nuclear physics program relative to that of other international laboratories, and to evaluate the likely contributions of the laboratory's proposed future program to this field and to science in general. The panel would also be asked to assess the effectiveness of laboratory operations and the overall scientific productivity of the laboratory.

As part of this charge, the panel would be specifically asked to examine the laboratory's Advanced Accelerator Research and Development efforts and assess whether they are properly focused to support current and future laboratory and national goals. The charge to the panel would also include a request that it evaluate the quality of the laboratory's applied science and technology programs, assess whether the current efforts directed toward them by the laboratory are justified, and whether the planned future direction and magnitude of these efforts appear appropriate relative to the primary mission of the laboratory.

In addition, the panel would be requested to evaluate laboratory management's use of discretion (where such discretion exists) in allocating resources among laboratory science and technology priorities and whether prudent judgement was exercised in making such allocations.

More detailed guidance will be developed based on special circumstances at the time of the review.

Frequency and Duration: Annually, two days plus one day for report writing and closeout.

Panel Composition: A cross-cutting panel (including a chairperson) of internationally recognized scientists and engineers will be appointed by the DNP following consultation with other program managers who fund significant program activities at the laboratory and with SURA.

Prior to the selection of the panel members, the composition of the panel may be adjusted, by mutual agreement of SURA and DOE, to match the programs and activities of the Laboratory and the special circumstances to be addressed by the review.

Conduct of the Review: The Director of DNP will select a chairperson (in consultation with SURA) and develop an agenda for the review based on the charge to the panel (in consultation with the chairperson and SURA).

In addition to the panelists appointed by the DNP, the Director of DNP and/or others whom he may designate will also participate in the review as a member of the panel. Consistent with the principles of the DOE-SURA partnership that are expressed in this contract, a representative selected by SURA will observe the deliberations of the panel and participate in panel discussions, including the executive sessions. This will assist SURA in performing its corporate oversight of the laboratory.

Each panel member will be asked to submit individual reports to the chairperson following the review. The chairperson will submit a report to the Director of DNP that provides his/her personal assessment of the review and the review results and transmits the individual reports from the other panel members. The Director of DNP will make the reports available to SURA.

1B. Performance Evaluation Plan

Introduction:

It is widely accepted that while various numerical indicators can be useful as inputs, the overall scientific and technical quality of a research institution is best judged by peer review. Among the more reliable criteria on which the judgement of the Peer Review Panel should be based are:

1. Quality of the research program as evidenced by seminal experimental or theoretical results.
2. Effectiveness of operations (including an assessment from users) in support of the research program
Major experimental or technological innovations resulting from work at Jefferson Lab.
3. Citations of papers or articles based on research carried out at Jefferson Lab and invited presentations at major international conferences based on Jefferson Lab results.
4. Other criteria deemed to be relevant will also be examined.

1.0 Peer Review

Scoring: Based on the individual reports of the panel members (including the chairperson), his own assessment, and following consultation with SURA, the Director of the Division of Nuclear Physics will assign an adjectival rating to the performance of the laboratory in producing Outstanding Science and Technology. A percentage of Key Indicator points within the range associated with the assigned rating will be awarded in accordance with the following table.

Adjectival Rating	% of Assigned Points
Outstanding	90 to 100
Excellent	80 to < 90
Good	70 to < 80
Marginal	60 to < 70
Unsatisfactory (Poor)	50 to < 60
Unsatisfactory (Failing)	<50

2. Reliable Operations

2A. Overview

Objective: Achieve reliable performance of the accelerator and detectors at required specifications to ensure the scientific success of the Laboratory.

Key Indicator (150 points):

2.0 Delivered physics research operations, as determined by the number of hours of simultaneous availability of the beams and the experimental equipment delivered.

Secondary Indicators (100 points):

2.1 Beam availability, as defined by the ratio of the time the beam is useful for the intended research program to the time it is scheduled for use during that period. [25 points].

2.2 Experimental equipment availability, as measured by the ratio of the time the equipment is operational at its design specifications in a particular configuration to the time it is scheduled for use in that configuration. [25 points]

2.3 The effectiveness of the scheduling process, as determined by the time that was scheduled to have elapsed between the publication of a firm accelerator schedule and the experiment's scheduled start date divided by the actual time between publication of a firm accelerator schedule and the date an experiment begins taking data. [25 points]

2.4 Overall operations effectiveness, defined as the ratio of the total time the accelerator is operated for physics (in weeks) to the total accelerator operations (in weeks) that was identified as the goal for the year during negotiations of the laboratory's operations budget. [25 points]

2B. Performance Evaluation Plan

Introduction:

Quantitative evaluation of performance in this area is measured against peak performance goals to be declared at the beginning of each evaluation period. A peak performance goal is one that corresponds to the maximum desirable performance in each area given anticipated technical and fiscal constraints. The Laboratory's long range "asymptotic" peak performance goals for each of the performance measures have been set by a joint laboratory-DOE team and will be reviewed by the team on an annual basis. These goals are listed in Table 2.1.

Table 2.1: Long Range Peak Performance Goals

Performance Measure	Indicator	Total Points Assigned	Description	Asymptotic Peak Performance Goal FY2001+
2.0	Delivered Physics Research Operations	150	Hours of physics research operations for which both beam and experimental equipment are simultaneously available	100% of research operations goal
2.1	Beam Availability	25	Percent of the scheduled time for which the beam is useful	80%
2.2	Experimental Equipment Availability	25	Percent of the scheduled time that the experimental equipment is operational	80%
2.3	Effectiveness of the Scheduling Process	25	How closely an experiment actually starts taking data relative to the scheduled start date	100%
2.4	Overall Operations Effectiveness	25	Percent of planned weeks of operations for physics that is delivered	100%

For secondary indicators 2.3 and 2.4, these peak performance goals apply immediately. For secondary indicators 2.1 and 2.2, the annual peak performance goals should reflect the anticipated turn-on curve for operations. Since the peak performance goal for the key indicator 2.0 is a function of secondary indicators 2.1 and 2.2, it too will reflect the anticipated turn-on curve for operations. Thus, the peak performance goals are adjusted as follows:

Table 2.2: Turn-On Peak Performance Goals* (PPG) for Indicators 2.1 and 2.2

Fiscal Year	Peak Performance Goals for Beam Availability (2.1) $A_{\text{accel-goal}}$ (See note below for adjustments)	Peak Performance Goals for Individual Halls included in the Base Experimental Equipment Availability Metric (2.2) $A_{\text{i-goal}}$
FY98	78%	78% (Hall C) 70% (Hall A) 55% (Hall B)
FY99	80%	80% (Hall C) 78% (Hall A) 70% (Hall B)
FY00	80%	80% (Halls A, C) 78% (Hall B)
+FY01-beyond	80%	80% (all Halls)

* before any adjustment for planned new capabilities

Once schedules are established for the three Halls in each year, the Key Indicator 2.0 peak performance goal will be determined by the product of the scheduled hours of beam operations for research, the hall and beam availabilities, and the multiplicity goal (# of halls that are to be operating simultaneously, on average). As the formula for determining the Key Indicator depends on quantities defined for the secondary indicators, we postpone a discussion of the key indicator until later in this section.

The nominal goals for the beam availability peak performance indicator 2.1 and for the individual hall experimental equipment availabilities that are folded together for the experimental equipment availability peak performance indicator 2.2 follow the anticipated curve for the accelerator learning curve (55% in the first year, 70% in the second, 78% in the third, and 80% in the fourth year and beyond). This same learning curve will be applied in the future whenever the accelerator or one of the experimental halls undergoes a major upgrade.

In addition, whenever a significant new capability is being commissioned (e.g., a substantial energy upgrade for the accelerator or a substantial addition to the hall base equipment) then the availability goal for the relevant capability shall be reduced by 10% for one quarter (corresponding to a reduction of 2.5% in the year's PPG for availability). The Lab and the DOE Site Office must both agree on any such reduction in the availability goal as part of the review of the goals at the beginning of the fiscal year. If the development of the new capability is later rescheduled and does not occur within the performance period, the reduction in the availability goal will be rescinded.

In FY00, we anticipate one such substantial upgrade for the accelerator: operation at 6.0 GeV – fully 50% above the design value. Therefore the goal for the accelerator in FY00 is reduced by 10% for one quarter leading to a new goal of: $80\% - (0.25 * 10\%) = 77.5\%$. Each of the three experimental halls has major installation work planned in FY00. In Hall A the detector packages will be swapped between the hadron and electron spectrometers to overcome maximum field limitations of the hadron spectrometer. Hall B will have two major installation experiments this year (the polarized target for eg1 running and the RadPhi experiment - E94-016). Hall C will also have two major installations this year, the HNSS and G_E^p . As a consequence, the hall availability goals should be reduced: for Hall A by 2.5% and for Halls B and C by 5%. These adjustments lead to the values listed in Table 2.3 below. For FY00, the peak performance goals are therefore:

Table 2.3: Peak Performance Goals for FY00

Indicator	Description	FY00 Peak Performance Goal
2.0	Hours of physics research operations for which both beam and experimental equipment are simultaneously available as scheduled	Calculate using the equation below
2.1	Percent of the scheduled time for which the beam is useful	77.5%
2.2	Percent of the scheduled time that the experimental equipment is operational	Calculate using the equation below and the individual hall availability goals: 75% Hall C (E_{c-goal}) 77.5% Hall A (E_{a-goal}) 73% Hall B (E_{b-goal})
2.3	How closely an experiment actually starts taking data relative to the scheduled start date	100%
2.4	Percent of the planned weeks of operations for physics that is delivered	100%

For each indicator, the relationship between the percent of peak performance goal that is achieved and the percent of the maximum possible points for that indicator to be awarded will be:

1. If actual performance is at least 50% of agreed peak performance goal:
% of points awarded = % of peak performance goal achieved (no incremental points are awarded if the performance exceeds the peak performance goal).
2. If actual performance is less than 50% of agreed peak performance goal:
% of points awarded = $2 * (\% \text{ of peak performance goal achieved} - 25\%)$
3. If actual performance is less than 25% of agreed peak performance goal:
No points awarded.

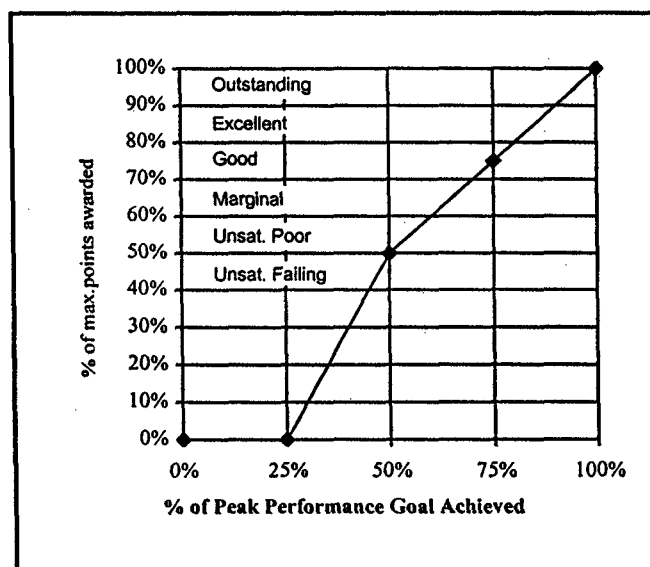


Fig. 2.1: Scoring as a % of Peak Performance Goal Achieved

To precisely quantify the peak performance goals for each performance metric, we begin by making the following definitions:

Table 2.4: Definitions

Quantity	Definition
S_i	The total number of hours assigned in the published schedule for experiments in Hall i
B_i	The beam availability for experiments in Hall i, as determined by the criteria defined below
S_{ad}	The total number of hours of accelerator development activities scheduled for the accelerator
B_{ad}	The beam availability for accelerator development activities as determined by criteria defined below
E_i	The experimental equipment availability for experiments in Hall i as determined by the criteria defined below
D_i	The fraction of the total time scheduled for experiments in Hall i when both the beam and experimental equipment are available and being used to carry out the planned scientific program
D_{ad}	The fraction of the total time scheduled for accelerator development activities that both the beam and the relevant test equipment are available and being used to carry out the planned development activities
t_{bs}	The date on which a firm beam schedule is released
t_{ss}	The date on which an experiment is scheduled to begin taking data as published in the firm beam schedule
t_{sa}	The actual date on which an experiment begins taking data
S_{beam}	The total number of hours in the published schedule that the accelerator is to provide beam for physics experiments
S_j	The total number of hours assigned to the j^{th} experiment in the published schedule

Details on the definitions of these quantities:

B_i , the beam availability for Hall i (where $i = a, b$, or c), is defined as the ratio of the time the beam is available for delivery to that hall to the time it is scheduled for delivery to that hall. The beam shall be considered as available for the experimental program when the beam quality deliverable to an experimental target lies within the nominal specifications and remains stable within defined limits over a thirty minute running period (see Table 2.5). Different specifications and stability limits may be used for specific experiments if agreed to in advance by both the Accelerator Division and the experiment spokesperson. Specifications for beam availability for accelerator development activities shall be defined in advance by the spokesperson for the development activity and the Accelerator Division.

E_i , the availability of the experimental equipment for hall i (where $i = a, b$, or c), is defined as the ratio of the time the equipment for that hall is operational at its design specifications in a particular configuration to the time it is scheduled for use in that configuration. The metric will initially consider only the "base" equipment as defined by the Jefferson Lab construction project. As new equipment is added to the base equipment (or as major new experimental apparatus is developed) it shall be treated separately following the availability goals established for the base equipment during its first two years of operation, and treated as part of the base equipment thereafter.

B_{ad} , the beam availability for accelerator development activities, is defined as the ratio of the time the beam is useful for these development activities to the time it is scheduled for such activities. Specifications for beam availability for accelerator development activities shall be defined in advance by mutual agreement between the spokesperson for the development activity and the Accelerator Division.

Table 2.5: Beam Requirements - General Characteristics

Parameter	Nominal Value and Range	Stability (for hours)
Beam Emittance: rms spot size for achromatic beam tune (1σ)	<u>Hall A:</u> $20\ \mu\text{m} < \sigma_x < 50\ \mu\text{m}$ $20\ \mu\text{m} < \sigma_y < 50\ \mu\text{m}$ <u>Hall B:</u> $20\ \mu\text{m} < \sigma_x < 70\ \mu\text{m}$ $20\ \mu\text{m} < \sigma_y < 70\ \mu\text{m}$ <u>Hall C:</u> $50\ \mu\text{m} < \sigma_x < 100\ \mu\text{m}$ $50\ \mu\text{m} < \sigma_y < 100\ \mu\text{m}$	25% of value
Beam Emittance: angular divergence (1σ)	$\sigma_x', \sigma_y' < 100\ \mu\text{r}$	25% of value
Beam position	$0\ \mu\text{m}$ (relative to optic axis)	rms deviation is less than 25% of the beam spot's rms radius
Beam direction	$0\ \mu\text{r}$ (relative to optic axis)	rms deviation is less than 25% of the beam angular divergence rms 1/2 cone angle
Energy (average)	0.5 - 4 GeV	<u>Hall A:</u> $< 3\ \text{E-4}$ <u>Hall B:</u> $< 1\ \text{E-3}$ <u>Hall C:</u> $< 1\ \text{E-3}$ (also $< 3\ \text{E-3}$ over days for all)
Energy Spectrum (1σ)	<u>Hall A:</u> $\sigma_E/E < 5\ \text{E-5}$ <u>Hall B:</u> $\sigma_E/E < 4.0\ \text{E-4}$ <u>Hall C:</u> $\sigma_E/E < 2.5\ \text{E-4}$	25% of value
Background (Beam Halo)	$< 1\text{E-6}$ of total current at 5σ (with diagnostic to be provided by the experiment)	any value within nominal range
Current (dc average) (Note: any single hall is restricted to $< 120\ \mu\text{A}$ unless it has exclusive use of the beam, and total current delivered to all 3 halls must be $< 180\ \mu\text{A}$)	<u>Hall A:</u> $40\ \text{nA} - 180\ \mu\text{A}$ <u>Hall B:</u> $1\ \text{nA} - 10\ \mu\text{A}$ <u>Hall C:</u> $40\ \text{nA} - 180\ \mu\text{A}$	within $\pm 10\%$ of value requested by experimenter
Polarization (current range to be determined by agreement between Physics and Accelerator Divisions)	$> 35\%$ (from bulk GaAs, with expected currents of order $100\ \mu\text{A}$) $> 75\%$ (from strained cathodes, with currents of order $30\ \mu\text{A}$ expected)	$\pm 10\%$ of value
Effective Duty Factor	$> 90\%$ (lower values may be negotiated with the Accelerator Division)	any value within the nominal range (90%-100%)
Proper Impingement on Beam Dump (raster)	rastered beam spot size $> 100\ \mu\text{m}$ stability of position $< 1\ \text{cm}$ (not including rastering)	

Scoring:

2.0 Delivered Physics Research Operations, $S_{\text{physics-research}}$, as determined by the number of hours of simultaneous availability of the beam and the experimental equipment. [150 points]

FY00 Peak Performance Goal (PPG): $S_{\text{physics-research-goal}} = S_{\text{beam}} A_{\text{sim-goal}} M_{\text{goal}}$ (hours)

Where $A_{\text{sim-goal}} = A_{\text{accel-goal}} E_{\text{t-goal}}$, the product of the goals for accelerator and experiment equipment availability, and M_{goal} is the goal for hall multiplicity, i.e., the average number of halls that are running any time the accelerator beam is available for physics. The product $S_{\text{beam}} A_{\text{sim-goal}}$

gives the number of hours of useful physics running that the accelerator and experimental equipment would deliver if both beam and experimental equipment availability goals were met (and assuming that there are no correlations in the causes of down-time for the accelerator and the experimental equipment). M_{goal} is nominally 2.0, reflecting our goal of running, on average, two halls simultaneously. The value of 2.0 is mainly based on a realistic assessment of the achievable multiplicity given the level of technical support available at the laboratory to assist in mounting and running experiments and our typical planning for major experiment installations each year. The multiplicity goal may be adjusted annually as part of the negotiations between DOE and laboratory management on the year's operating budget and staff levels.

In addition, M_{goal} will be reduced in any year that one or more of the halls are planned to be "down" for an unusual length, e.g., for a major upgrade of the apparatus or the installation of major new apparatus. There are no such reductions anticipated for FY00.

This is to be compared with the actual physics research operations, given by:

$$S_{\text{physics-research}} = S_a D_a + S_b D_b + S_c D_c \text{ (hours)}$$

If actual performance is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

2.1 The total beam availability, B_t , is the weighted average over the experimental and beam development activities scheduled of the beam availabilities for the individual experimental halls and for accelerator development activities. [25 points]

FY00 Peak Performance Goal (PPG): 75%

$$B_t = (B_a S_a + B_b S_b + B_c S_c + B_{ad} S_{ad}) / (S_a + S_b + S_c + S_{ad})$$

If actual performance (B_t) is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

2.2 The total availability of the base experimental equipment, E_t , is the average over all halls scheduled of the beam availabilities for the individual halls. [25 points]

FY00 Peak Performance Goal (PPG):

$$E_{t-goal} = (E_{a-goal}S_a + E_{b-goal}S_b + E_{c-goal}S_c)/(S_a + S_b + S_c)$$

and is calculated based on the published schedule for hall operations and the goals, E_{i-goal} , for the individual hall availabilities as listed in Table 2.3 above.

The actual availability to be compared with the goal above is:

$$E_t = (E_aS_a + E_bS_b + E_cS_c)/(S_a + S_b + S_c)$$

If actual performance (E_t) is at least 50% of agreed PPG (E_{t-goal}), then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

2.3 The effectiveness of the scheduling process, ϵ_{sched} , is the average performance with respect to start times for all experiments on the published, "firm" schedule, weighted according to the scheduled duration, S_j , of each experiment, of the ratio, R_j , of the actual start time to the scheduled start time for the j^{th} experiment. [25 points]

FY00 and beyond Peak Performance Goal (PPG): 100%

$$\epsilon_{sched} = (\sum S_j R_j) / (\sum S_j), \text{ where } R_j = (t_{ss} - t_{bs}) / (t_{sa} - t_{bs})|_j$$

If actual performance (ϵ_{sched}) is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

Notes:

- 1) The basic schedule will be issued every six months; it will confirm the remainder of the "firm" schedule which has been in progress for the preceding three months and announce the firm schedule for a period

extending to nine months from the date of issue and the tentative schedule for six months following the announced firm schedule.

- 2) Schedule changes requested by the experimenter or deemed mutually beneficial to both the experimenter and the laboratory shall be treated as if the changed date was listed in the original schedule for the purposes of calculating this sum.

2.4 Overall operations effectiveness, ϵ_{ops} , defined as the ratio of the total time the accelerator is operated for physics (in weeks) to the total accelerator operations (in weeks) that was identified as the joint expectation for the year during negotiations of the laboratory's operations budget. [25 points]

FY00 and beyond Peak Performance Goal (PPG): 100%

$$\epsilon_{ops} = (\text{weeks of accelerator operations for physics}) / (\text{weeks for accelerator ops in contract})$$

If actual performance (ϵ_{ops}) is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

3. Production of Scientific and Technical Manpower

3A. Overview

Objective: Jefferson Lab will contribute to the education and training of the future scientific/technical work force for the nation, emphasizing meaningful, unique research experiences at the forefront in its areas of physics and engineering and also emphasizing increasing the qualifications of underrepresented populations for scientific/technical careers.

Key Indicator (60 points):

3.0a Number of student years per year on Jefferson Lab-related research or technical activities. [35 points]

3.0b Total number of advanced degrees per year based on Jefferson Lab research. [25 points]

Secondary Indicators (15 points):

3.1 Number of advanced degrees per year granted by minority universities and based on Jefferson Lab research. [5 points]

3.2 Participation of students from groups traditionally underrepresented in physical science and engineering fields. [10 points]

3B. Performance Evaluation Plan

3.0a Number of student years per year on Jefferson Lab-related research or technical activities.
[35 points]

Methodology

The data collection process involves two major components: the administration of a Jefferson Lab Users Group Survey and a cross-check against the University Relations student inventory list. Surveys are sent to the complete Users Group. An initial response rate of 10-20% of the group of active users is considered reasonable. However, to understand the nature of the full population, a follow-up survey of one in 15 non-respondents will be conducted. This follow-up survey attempts to capture non-respondents who ignored the initial survey because they thought it was irrelevant to them, but who have valid data that would more accurately reflect the population. Best estimates for user student population are obtained by supplementing the actual student numbers from the initial survey respondents with the expected number of unreported students based on the 1-in-15 follow-up survey. The follow-up survey of one in 15 non-respondents is a modification from the FY97 methodology where follow-up surveys were conducted with one in 30 non-respondents. The accuracy of the data will be improved with this modification.

Scoring: Tally the number for each high school, undergraduate, and graduate student involved in Jefferson Lab-related research or technical activities (including computing) at Jefferson Lab and collaborating institutions and apply the following equation:

$$\text{WSII (Weighted Student Involvement Index)} = 1\text{HSS} + 2\text{UGS} + 4\text{GS}$$

where HSS = High School Students, UGS = Undergraduate Students, and GS = Graduate Students

Performance Level	Adjectival Rating	% of Assigned Points
WSII \geq 1000 and $<$ 1075	Outstanding	90 to 100
WSII \geq 925 and $<$ 1000	Excellent	80 to $<$ 90
WSII \geq 850 and $<$ 925	Good	70 to $<$ 80
WSII \geq 775 and $<$ 850	Marginal	60 to $<$ 70
WSII $<$ 775	Unsatisfactory	$<$ 60

3.0b Total number of advanced degrees per year based on Jefferson Lab research. [25 points]

Methodology

To estimate the total number of advanced degrees, initially reported and known degrees are supplemented with the expected numbers of unreported degrees based on the number of unreported students and the base of the reported students obtaining such degrees.

Scoring: Tally the number of Master's Degrees and PhD's awarded for research based at Jefferson Lab or involving strong interaction with Jefferson Lab and apply the following equation:

$$CD \text{ (Composite Degrees)} = MD + 3PHD$$

where MD = Number of awarded Master's degrees and PHD = Number of awarded PhD's

Performance Level	Adjectival Rating	% of Assigned Points
$CD \geq 45$ and < 53	Outstanding	90 to 100
$CD \geq 38$ and < 45	Excellent	80 to < 90
$CD \geq 30$ and < 38	Good	70 to < 80
$CD \geq 23$ and < 30	Marginal	60 to < 70
$CD < 23$	Unsatisfactory	< 60

3.1 Number of advanced degrees per year granted by minority universities based on Jefferson Lab research. [5 points]

Methodology

Degrees awarded by minority institutions are collected directly. Participation by underrepresented populations are based on the percentages from the initial survey data.

Scoring: See 3.0b scoring scheme, but count degrees granted by minority institutions only (HBCU, MEI, women's college) and apply the following equation:

$$CDM \text{ (Composite Degrees Minority)} = MD + 3PHD$$

where MD = Number of awarded Master's degrees and PHD = Number of awarded PhD's

Performance Level	Adjectival Rating	% of Assigned Points
$CMD \geq 6$	Outstanding	100
$CMD \geq 4$ and < 6	Excellent	85
$CMD \geq 2$ and < 4	Good	75
$CMD = 1$	Marginal	65
$CMD = 0$	Unsatisfactory	55

3.2 Participation of students from groups traditionally underrepresented in physical science and engineering fields. [10 points]

Scoring: Determine the MWSII (Minority Weighted Student Involvement Index) for women or underrepresented minorities.

$$MWSII = 1MHSS + 2MUGS + 4MGS$$

Where: MHSS = Women or Minority High School Students;
MUGS = Women or Minority Undergraduate Students; and,
MGS = Women or Minority Graduate Students

Students who qualify for more than one category can be counted more than once.

Performance Level	Adjectival Rating	% of Assigned Points**
MWSII > 323 and < 376*	Outstanding	90 to 100
MWSII > 269 and < 323	Excellent	80 to < 90
MWSII > 215 and < 269	Good	70 to < 80
MWSII > 161 and < 215	Marginal	60 to < 70
MWSII > 107 and < 161	Unsatisfactory (Poor)	50 to < 60
MWSII < 107	Unsatisfactory (Failing)	0 to < 50

* Performance level greater than 376 receive 100% of assigned points.

** Percent of assigned points identified in the table can be calculated directly by the following formulas:

% of points = (((MWSII – lowest number in Performance Level) / 53) * 10) + lowest number in % of Assigned Points for MWSII > 107

% of points = (1 – ((106 – MWSII) / 106))) * 49 for MWSII < 107

4. Corporate Citizenship

4A. Overview

Objective: As a taxpayer-funded institution, Jefferson Lab should serve the public and the national interest in important areas where it has special competencies which are mission related.

PUBLIC OUTREACH AND IMPROVED SCIENTIFIC LITERACY (35 points).

Objective: Scientific literacy and support are essential for the public to make competent decisions on everyday matters of increasingly complex technical nature. Science and math education are important for today's students if they are to complete high school prepared for college or a worthwhile career. As a workplace where science and math are in the forefront, Jefferson Lab can provide unique educational and motivational opportunities and materials. Public awareness of Jefferson Lab and its DOE-sponsorship is also essential for the future well being of the laboratory and the national science enterprise.

Key Indicator (20 points)

4.0 Public participation (in effective person-hours per year): [Number of student hours + number of public hours + 10 * number of teacher hours] per year, including visits, external public talks, science series, tours, open house, BEAMS, etc.

Secondary Indicators (15 points)

4.1 Public visibility: Number of newspaper and magazine articles, Web-based news systems, and radio and television programs mentioning Jefferson Lab and its science or technology (7 points); percentage of these citations mentioning DOE (3 points). [10 points total]

4.2 "Customer satisfaction" [5 points]

TECHNOLOGY TRANSFER (40 points)

Objective: The objective of the Jefferson Lab technology transfer program is the dissemination of key technologies to industry that are developed as result of Jefferson Lab's primary scientific mission and that are of interest to industry.

Key Indicator (20 points)

4.3 Non-DOE investment in Jefferson Lab initiatives (including direct dollars, manpower costs, and contributions in-kind)

Secondary Indicators (20 points)

4.4 Intellectual property generation as indicated by the annual number of (a) patent applications, (b) patents awarded, (c) license agreements. [10 points]

4.5 Benefit to partners based on the results of a mutually agreed customer survey where the customer indicates level of satisfaction on a 1 (lowest) to 5 (highest) scale. [10 points]

4B. Performance Evaluation Plan

PUBLIC OUTREACH AND IMPROVED SCIENTIFIC LITERACY [35 points]

Introduction:

Jefferson Lab's effect on public awareness and literacy is strongest when people have direct personal contact with laboratory personnel and facilities. The typical minimum time to influence a person's awareness and literacy of things that are outside his/her area of expertise is about an hour, and significant learning can occur in this period. Teachers learn not just for themselves but to pass on information and concepts to their students. Typical teachers contact 25-100 students per year, but the literacy transfer to the students is likely to be lower than it would be if the students participated in the Jefferson Lab experience directly. Consequently, the multiplier 10 for teacher participation is a conservative adjustment for the true outreach/literacy impact.

4.0 Public participation (in effective person-hours per year): [Number of student hours + number of public hours + 10 * number of teacher hours] per year, including visits, external public talks, science series, tours, open house, BEAMS, etc. [20 points]

Scoring: Count or estimate the number (N_i) of participants or attendees in each event (i). Measure the duration (t_i) in hours of the activity, event, or the typical person's involvement. People counted under Scientific Manpower do not count here; high school students doing research do not count.

Calculate the public participation metric (P)

$$P = \sum_i N_i t_i \quad \text{for all events}$$

Peak Performance Goal (PPG):

Good faith efforts will be made to ensure N_i is accurate within 10%; t_i will be measured to the nearest half hour. For FY 2000 Jefferson Lab's Peak Performance Goal (PPG) will be:

-105,000 person-hours broken down as:

- Science and Education - students, teachers, parents - 95,000*
- Public Outreach - 10,000

- Note: If the TRAC program is not funded by DOE, this number will be reduced by 25,000 to 80,000 person-hours overall and 70,000 person-hours for science education. The corresponding ratings will be:

Performance Level	Adjectival Rating	% of Assigned Points†
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
0% to < 50% of PPG	Unsatisfactory (Failing)	0 to < 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

4.1 (a) Public visibility: Number of newspaper and magazine articles, Web-based news systems, and radio and television programs mentioning Jefferson Lab and its science or technology (7 points); (b) percentage of these citations mentioning DOE (3 points). [10 points total]

Scoring:

a) Public Visibility "V" [7 points]

$$V = \sum W_i \quad W_i = C_i + D_i \quad i = \text{each article, radio or TV appearance}$$

Circulation Weighting Factors (C _i)		Distribution Factor (D _i)	
<10,000	1	Local inside SE Virginia	0
10,000-50,000	2	Local outside SE Virginia	+1
50,000-250,000	3	Regional	+1
>250,000	4	National	+2
		International	+3

Regional is defined as Washington DC, Maryland, West Virginia, Tennessee and North Carolina.

The number counted will be \leq the number occurring, because we would not necessarily be aware of all coverage. If one article is repeated in many publications, add the audience circulation factor and the distribution factors for each. Each article in a series of articles will be counted individually.

Peak Performance Goal (PPG): For FY 2000 Jefferson Lab's Peak Performance Goal will be 400. Scoring will be determined using the values in the following table.

Performance Level	Adjectival Rating	% of Assigned Points†
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
0% to < 50% of PPG	Unsatisfactory (Failing)	0 to < 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

b) DOE Citation. [3 points]

Percent mentioning DOE: Count the articles, broadcasts, exhibits, interviews and videos (A) initiated by Jefferson Lab which feature the laboratory and the subset (S) of those communications in which the Laboratory mentions DOE. In the case where the Laboratory mentions "DOE" in a proposed article or broadcast and the final version is revised or altered by the media, the Laboratory will receive credit for the article or broadcast since the Laboratory has no control over the final version. Percent = 100 S/A. The score is as follows:

Performance Level	Adjectival Rating	% of Assigned Points [†]
90% to 100%	Outstanding	90 to 100
80% to < 90%	Excellent	80 to < 90
70% to < 80%	Good	70 to < 80
60% to < 70%	Marginal	60 to < 70
50% to < 60%	Unsatisfactory (Poor)	50 to < 60
0% to < 50%	Unsatisfactory (Failing)	0 to < 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

4.2 Customer satisfaction. [5 points]

Scoring: Normalize all feedback from customers (overall ratings) for selected events and activities [to be determined by the laboratory and the DOE Site Office], with average or neutral being 70. Average all available event scores. For public participation events, at least 15% of the total number of participants will be surveyed. This fraction should be representative of a reasonable cross-section of all such public events. For education events, at least 80% of the participants will be surveyed.

Each customer indicates a level of satisfaction on a 1 (lowest) to 5 (highest) scale for each event. After each event, average is calculated, average the event averages resulting in one overall average (A). Normalize the average (A) according to the following formula:

$$N_A = \text{Normalized Average (A)} = [(A - 1) * 15] + 40$$

Performance Level (N _A)	Adjectival Rating	% of Assigned Points [†]
90 to 100	Outstanding	90 to 100
80 to < 90	Excellent	80 to < 90
70 to < 80	Good	70 to < 80
60 to < 70	Marginal	60 to < 70
50 to < 60	Unsatisfactory (Poor)	50 to < 60
40 to < 50	Unsatisfactory (Failing)	0 to < 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

TECHNOLOGY TRANSFER (40 points)

4.3 Non-DOE investment in Jefferson Lab initiatives (including direct dollars, manpower costs, and contributions in-kind) [20 points]

Scoring:

Performance Level	Adjectival Rating	Assigned Points [†]
Non-DOE Investment 2% to 2.5% of Jefferson Lab ops budget	Outstanding	18 to 20
" " 1.5% to < 2% " "	Excellent	16 to < 18
" " 1% to < 1.5% " "	Good	14 to < 16
" " 0.5% to < 1% " "	Marginal	12 to < 14
" " 0.25% to < 0.5% " "	Unsatisfactory (Poor)	10 to < 12
" " < 0.25% " "	Unsatisfactory (Failing)	0 to < 10

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

4.4 Intellectual property generation as indicated by the annual number of [10 points]:

- (a) patent applications
- (b) patents awarded
- (c) license agreements

Scoring:

Performance Level	Adjectival Rating	Assigned Points
Two license granted or one patent award or 5 or more patent applications executed	Outstanding	10
4 patent applications executed	Excellent	8
3 patent applications executed	Good	6
2 patent applications executed	Marginal	4
1 patent application executed	Unsatisfactory (Poor)	2
0 patent application executed	Unsatisfactory (Failing)	0

4.5 Benefit to partners based on the results of a mutually agreed customer survey where the customer indicates level of satisfaction on a 1 (lowest) to 5 (highest) scale. [10 points]

Scoring:

Performance Level (Average Rating on Customer Survey)	Adjectival Rating	% of Assigned Points [†]
4.0 to 5.0	Outstanding	90 to 100
3.5 to < 4.0	Excellent	80 to < 90
3.0 to < 3.5	Good	70 to < 80
2.5 to < 3.0	Marginal	60 to < 70
2.0 to < 2.5	Unsatisfactory (Poor)	50 to < 60
0.0 to < 2.0	Unsatisfactory (Failing)	0 to < 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5. Quality Performance in Environment, Health, and Safety

5.A Overview

Objective: Protection of workers, the public and the environment, adherence to the ALARA concept, and compliance with laws, regulations, statutory requirements, and appropriate national initiatives (recycling, waste reduction, etc.) at lowest reasonable cost.

Key Indicators (55 Points)

5.0a Cost index: $100 * (\$1,000,000 * \text{fatalities} + \$500,000 * \text{permanent transfers or terminations due to occupational illness or injury} + 2,000 * \text{lost workday cases} + 1,000 * \text{days away from work} + 400 * \text{restricted workdays} + 2,000 * \text{number of non-fatal cases without days away from work or restricted workdays}) / \text{total work-hours}$. [35 points]

5.0b Jefferson Lab environmental exceedances per fiscal year. [20 points]

Secondary Indicators (45 points)

5.1 Jefferson Lab lost work day case rate (cases per 100 person years worked). [15 points]

5.2a Number of reportable and recordable exposures to radiation as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

5.2b Number of reportable and recordable exposures to hazardous substances as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

5.3 Solid waste recycled, in tons, divided by (solid waste sent to landfill, in tons + solid waste recycled, in tons). [6 points]

5.4a Pounds of radioactive waste produced by (equipment upgrades + maintenance) divided by pounds of radioactive waste produced by (equipment upgrades + maintenance + unintentional processes). [4 points]

5.4b Pounds of hazardous waste produced divided by pounds of hazardous waste which would have been produced without countermeasures. [4 points]

5.5 Peer review of Emergency Management Program in odd-numbered fiscal years, and of Radiological Control Program in even-numbered fiscal years. [4 points]

5.6 Fraction of high-value facilities rated "Highly Protected Risk." [4 points]

5B. Performance Evaluation Plan

5.0a Cost index: $100 * (\$1,000,000 * \text{fatalities} + \$500,000 * \text{permanent transfers or terminations due to occupational illness or injury} + 2,000 * \text{lost workday cases} + 1,000 * \text{days away from work} + 400 * \text{restricted workdays} + 2,000 * \text{number of non-fatal cases without days away from work or restricted workdays}) / \text{total work-hours}$. [35 points]

Introduction:

Goal: To achieve a performance level which is 50% better than the DOE Lab average.

Qualifiers:

- Comprises all SURA/Jefferson Lab staff
- Includes official travel
- Includes personnel paid under joint salary arrangements

Data collection: EH&S Reporting

Data evaluation: EH&S Reporting

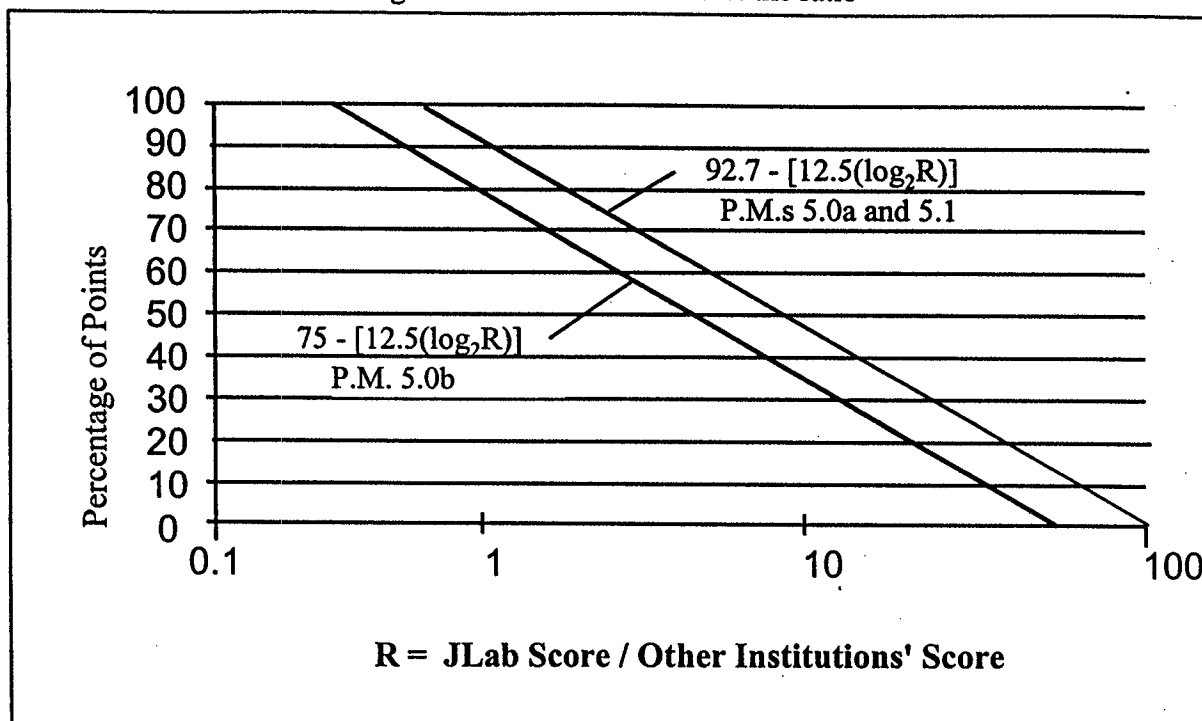
Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based on ratio R of Jefferson Lab's performance during the rating (fiscal) year to the average of DOE Research Contractors for the immediately preceding calendar year, as shown in Table S3 of the publication "DOE Occupational Injury and Property Damage Summary." Note that if $1/R=1.50$, then the Laboratory's goal is met and 100% of the available points are awarded. Other scores are illustrated in the following Table; Figure 5.1 on the following page shows the logarithmic interpolation between performance levels listed in the Table:

Performance Level (R)	Adjectival Rating	% of Assigned Points [92.7 -12.5(log ₂ R)]
1.162 to 0.667	Outstanding	90 to 100
2.022 to 1.162	Excellent	80 to <90
3.521 to 2.022	Good	70 to <80
6.130 to 3.521	Marginal	60 to <70
10.67 to 6.130	Unsatisfactory (Poor)	50 to <60
170.8 to 10.67	Unsatisfactory (Failing)	0 to <50

Figure 5.1: Points awarded v. the ratio



5.0b Jefferson Lab environmental exceedances per fiscal year. [20 points]

Introduction:

Goal: To achieve a performance level which is 4 times as good as the DOE complex average.

Qualifiers:

- Violation points for purely administrative violations caused by late reporting of routine information to the regulatory agency may be waived (for purposes of this performance measure) by agreement of SURA and the DOE Site Office if SURA had all necessary information to the Site Office at least two working days before it was due.
- Violation points for multiple related concurrent violations will be treated as a single violation.
- Occurrence Reporting and Processing System (ORPS) thresholds are as defined in order 232.1 dated 9/25/95.

Data collection: EH&S Reporting, receiving information from the Site Office

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected. Site Office is the permit holder, and receives information directly on Jefferson Lab environmental exceedances.

Scoring: Jefferson Lab's current performance is evaluated against a permanent baseline of DOE-wide performance for CY 1995. Performance level is based on the ratio R of Jefferson Lab's

performance per FTE to the DOE-wide environmental exceedances performance per FTE, using CY 1995 (as extracted from EH-33 special survey).

Values assigned as follows:

- A “.1” environmental exceedance for a purely administrative violation that is reportable under the ORPS.
- A “.3” environmental exceedance for an environmentally significant violation that results in no long-term (typically less than 30 days) environmental damage, but the violation is ORPS reportable.
- A “.1.0” environmental exceedance for a violation that has a significant environmental impact of ≥ 30 days and is ORPS reportable.

The sum of these values is divided by the Jefferson Lab FTEs and compared to the permanent DOE baseline to develop the ratio, R. Note that if $1/R=4$, then the Laboratory's goal is met and 100% of the available points are awarded. Other scores are illustrated in the following Table; Figure 5.1 shows the logarithmic interpolation between performance levels listed in the Table:

Performance Level (R)	Adjectival Rating	% of Assigned Points [75-12.5(log ₂ R)]
.436 to .25	Outstanding	90 to 100
.758 to .436	Excellent	80 to <90
1.32 to .758	Good	70 to <80
2.30 to 1.32	Marginal	60 to <70
4.0 to 2.30	Unsatisfactory (Poor)	50 to <60
64.0 to 4.0	Unsatisfactory (Failing)	0 to <50

5.1 Jefferson Lab lost work day case rate (cases per 100 person years worked). [15 points]

Introduction:

Goal: To achieve a performance level which is 50% better than the DOE Lab average.

Qualifiers:

- Comprises all SURA/Jefferson Lab staff
- Includes official travel
- Includes personnel paid under joint salary arrangements

Data collection: EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based on ratio R of Jefferson Lab's performance during the rating (fiscal) year to the average of DOE Research Contractors for the immediately preceding calendar year, as shown in Table S3 of the publication "DOE Occupational Injury and Property Damage Summary." Note that if $1/R=1.50$, then the Laboratory's goal is met and 100% of the available points are awarded.

Other scores are illustrated in the following Table; Figure 5.1 shows the logarithmic interpolation between performance levels listed in the Table:

Performance Level (R)	Adjectival Rating	% of Assigned Points [92.7 - 12.5(log ₂ R)]
1.162 to 0.667	Outstanding	90 to 100
2.022 to 1.162	Excellent	80 to <90
3.521 to 2.022	Good	70 to <80
6.130 to 3.521	Marginal	60 to <70
10.67 to 6.130	Unsatisfactory (Poor)	50 to <60
170.8 to 10.67	Unsatisfactory (Failing)	0 to <50

5.2a Number of reportable and recordable exposures to radiation as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

Introduction:

Goal: To have a satisfactory ALARA program, with no exposures > 80% of the ORPS off-normal threshold.

Qualifiers:

- Includes everyone on site (including adjacent space leased by SURA and those personnel covered by the Jefferson Lab radiation dosimetry program)
- Only the worst exposure is counted in an event involving radiation exposure.
- Excludes exposures pre-approved in accordance with the Rad Con Manual.
- ORPS thresholds are as defined in order 232.1, dated 9/25/95.

Data collection: Radiological Control reports the information to EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based directly on exposures and program evaluation. Values assigned as follows:

- 0.00 for ALARA program rated better than satisfactory in the most recent internal evaluation (performed by the Radiological Control Manager during the preceding 12 months).
- 0.01 for ALARA program rated satisfactory in the most recent internal evaluation.
- 0.1 for ALARA program rated less than adequate in the most recent internal evaluation.
- 0.5 for an event in which the worst whole body exposure is above 80% but below 100% of the ORPS off-normal threshold.
- 1.0 for an event in which the worst whole body exposure is above the ORPS off-normal threshold but below the unusual occurrence threshold.
- 5.0 for an event in which the worst whole body exposure is above the ORPS unusual occurrence threshold.

Performance Level is given by the sum (S) of these values.

Performance Level (S)	Adjectival Rating	% of Assigned Points†
< 0.1 to 0.01	Outstanding	90 to 100
0.5 to 0.1	Excellent	80 to <90
1.0 to > 0.5	Good	70 to <80
5.0 to > 1.0	Marginal	60 to <70
10.0 to > 5.0	Unsatisfactory (Poor)	50 to <60
> 10.0	Unsatisfactory (Failing)	0 to <50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels >10.0 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.2b Number of reportable and recordable exposures to hazardous substances as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

Introduction:

Goal: To have no exposures above an OSHA action level.

Qualifiers:

- Includes everyone on site (including adjacent space leased by SURA)
- ORPS thresholds are as defined in order 232.1, dated 9/25/95.
- No more than three exposures are counted in a single incident.

Data collection: Industrial Hygiene Staff report the information to EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based on exposures. Values assigned as follows:

- 0.1 for an exposure above an OSHA action level, but less than the ORPS off-normal threshold (2 times the OSHA permissible exposure level).
- 1.0 for an exposure above the ORPS off-normal threshold, but below the unusual occurrence threshold.
- 5.0 for an exposure above the unusual occurrence threshold (5 times the OSHA permissible exposure level).

Performance Level is given by the sum (S) of these values

Performance Level (S)	Adjectival Rating	% of Assigned Points†
0.5 to 0.0	Outstanding	90 to 100
1.0 to > 0.5	Excellent	80 to <90
4 to > 1.0	Good	70 to <80
16 to > 4	Marginal	60 to <70
35 to > 16	Unsatisfactory (Poor)	50 to <60
> 35	Unsatisfactory (Failing)	0 to <50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels >35 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.3 Solid waste recycled, in tons, divided by (solid waste sent to landfill, in tons + solid waste recycled, in tons). [6 points]

Introduction:

Goal: To exceed the FY94 baseline recycling ratio (0.021) by 44%.

Qualifiers:

- Includes solid waste in dumpsters on the Jefferson Lab site.
- Includes solid waste picked up for recycling from the Jefferson Lab site.
- Weights are measured by the subcontractors as part of the subcontract requirements.
- Additional waste streams may be added if they are found to be significant.

Data collection: The solid waste and recycling subcontractors report the information to Plant Engineering, which consolidates the data and forwards it to EH&S Reporting.

Data evaluation: EH&S Reporting

Performance evaluation: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based directly on current year's recycling ratio.

Performance Level (Ratio)	Adjectival Rating	% of Assigned Points [†]
0.026 to \leq 0.030	Outstanding	90 to 100
0.020 to $<$ 0.026	Excellent	80 to $<$ 90
0.010 to $<$ 0.020	Good	70 to $<$ 80
0.005 to $<$ 0.010	Marginal	60 to $<$ 70
0.002 to $<$ 0.005	Unsatisfactory (Poor)	50 to $<$ 60
$<$ 0.002	Unsatisfactory (Failing)	0 to $<$ 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels $<$ 0.002 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.4a Pounds of radioactive waste produced by (equipment upgrades + maintenance) divided by pounds of radioactive waste produced by (equipment upgrades + maintenance + unintentional processes). [4 points]

Introduction:

Goal: To limit generation of radioactive waste by unintentional processes to 10% of total radioactive waste generated.

Qualifiers:

- Equipment upgrades includes the removal of equipment which is no longer in use.
- Maintenance includes repairs necessitated by spontaneous failures.
- Unintentional processes exclude radioactive waste caused by spontaneous failures.
- Only accelerator and experimental equipment components are included.

- Unintentional processes include thermal damage caused by the beam and mechanical damage, plus other processes only if the information is available to the Radiological Control Group without investigation by that group.
- If no radioactive waste is generated in a year, a rating of 95% will be assigned.

Data collection: The Radiological Control Group collects this information and forwards it to EH&S Reporting.

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is readily collectible.

Scoring: Based directly on ratio.

Performance Level (Ratio)	Adjectival Rating	% of Assigned Points [†]
0.80 to < 0.90	Outstanding	90 to 100
0.70 to < 0.80	Excellent	80 to <90
0.60 to < 0.70	Good	70 to <80
0.50 to < 0.60	Marginal	60 to <70
0.40 to < 0.50	Unsatisfactory (Poor)	50 to <60
0.00 to < 0.40	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5.4b Pounds of hazardous waste produced divided by pounds of hazardous waste which would have been produced without countermeasures. [4 points]

Introduction:

Goal: To reduce hazardous waste generation by a factor of 4 relative to the amount which would be produced without countermeasures.

Qualifiers: None

Data collection: Pounds of hazardous waste is determined by the Hazardous Waste Coordinator. Pounds of hazardous waste which would have been produced without countermeasures is determined jointly by the hazardous waste coordinator and the hazardous waste producer.

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: The criteria used for determining pounds of hazardous waste which would have been produced without countermeasures are reviewed by EH&S Reporting to ensure validity.

Scoring: Based directly on ratio.

Performance Level (Ratio)	Adjectival Rating	% of Assigned Points†
0.4 to \geq 0.25	Outstanding	90 to 100
0.5 to $>$ 0.4	Excellent	80 to $<$ 90
0.6 to $>$ 0.5	Good	70 to $<$ 80
0.7 to $>$ 0.6	Marginal	60 to $<$ 70
0.8 to $>$ 0.7	Unsatisfactory (Poor)	50 to $<$ 60
1.0 to $>$ 0.8	Unsatisfactory (Failing)	0 to $<$ 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5.5 Peer review of the Emergency Management Program in odd-numbered fiscal years, and of the Radiological Control Program in even-numbered fiscal years. [4 points]

Introduction:

Goal: Program (including planning and response services and facilities) is appropriate for a low-hazard, non-nuclear accelerator facility.

Qualifiers:

- Factors considered by Emergency Management Review Committee:
 - Gaps or redundancies relative to services available in surrounding communities
 - Appropriate balance between costs and potential benefits
 - Efficient use of resources applied
 - Related Appendix E requirements in effect on November 1, 1996, including those replaced by this performance measure, provided to Review Committee for their information and use
- Factors considered by Radiological Control Review Committee:
 - Management and control of exposures to workers and the public
 - Control of radiological damage to the environment
 - Achievement of exposures which are as low as reasonable, considering cost
 - Compliance with laws, regulations, and other Necessary Standards
 - Results of DOELAP review when conducted since the last Radiological Control Program review
 - Efficient use of resources applied
 - Related Appendix E requirements in effect on November 1, 1996, including those replaced by this performance measure, provided to Review Committee for their information and use

Data collection: The Emergency Management Manager and Radiological Control Manager, respectively, provide appropriate data to the Review Committee.

Data evaluation:

- Performed by the Review Committee
- Duration of review one to two days
- Emergency Management Review Committee:
 - Membership:
 - Emergency management professional from the surrounding community

- Line manager from Thomas Jefferson National Accelerator Facility
- Line manager from an industrial organization in surrounding community
- Observer from DOE
- Members and chairperson selected by Emergency Management Manager, subject to DOE Site Office concurrence
- Radiological Control Review Committee:
 - Membership:
 - Two radiological professionals from DOE laboratories
 - Line manager, active or recently retired, from an organization with substantial accelerator experience (excluding Jefferson Lab)
 - Members selected by Radiological Control Manager, subject to DOE Site Office concurrence
 - Professionals from DOE laboratories are expected to be familiar with applicable laws, regulations, and other Necessary Standards
- The Review Committee is asked to assign a percentage rating to the extent to which the goal, as qualified above, is achieved
- The Review Committee is asked to point out noteworthy strengths and also opportunities for improvement in effectiveness or efficiency

Performance measure custodian: EH&S Reporting

Performance measurement validation: The independence of the majority of the members assures the validity of the results.

Scoring: Based directly on percentage rating by Review Committee. The non-linear relationship to the percentage of assigned points reflects the subjectivity necessarily associated with a small review committee.

Performance Level (Score, %)	Adjectival Rating	% of Assigned Points [†]
80 to \geq 100	Outstanding	90 to 100
70 to $<$ 80	Excellent	80 to $<$ 90
60 to $<$ 70	Good	70 to $<$ 80
50 to $<$ 60	Marginal	60 to $<$ 70
40 to $<$ 50	Unsatisfactory (Poor)	50 to $<$ 60
0 to $<$ 40	Unsatisfactory (Failing)	0 to $<$ 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5.6 Fraction of high-value facilities rated "Highly Protected Risk." [4 points]

Introduction:

Goal: All high-value facilities meet insurance carrier criteria for Highly Protected Risk designation.

Qualifiers:

- A facility is a separate building and its contents

- A facility is high-value if it has a maximum credible fire loss of \$1 million or more
- A facility is high-value if it is mission essential
- A facility is mission essential if its maximum credible fire loss would result in more than a three month programmatic delay

Data collection: Facilities which are high-value are determined by the Plant Engineering Director, with DOE Site Office concurrence. Information required to classify the level of fire protection is collected by representatives from the technical services group of SURA's fire and property insurance carrier.

Data evaluation: Performed by representatives from the technical services group of SURA's fire and property insurance carrier

Performance measure custodian: EH&S Reporting

Performance measurement validation: Site Office concurrence ensures that the high-value facilities are correctly identified. The fact that the same insurance carrier classifies the fire protection risk and provides SURA's fire coverage assures accuracy in the classification.

Scoring: Based directly on fraction of high-value facilities meeting criteria.

Performance Level (Score)	Adjectival Rating	% of Assigned Points†
0.95 to 1.00	Outstanding	90 to 100
0.90 to < 0.95	Excellent	80 to <90
0.85 to < 0.90	Good	70 to <80
0.80 to < 0.85	Marginal	60 to <70
0.75 to < 0.80	Unsatisfactory (Poor)	50 to <60
0.00 to < 0.75	Unsatisfactory (Failing)	0 to <50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

6. Quality of Business and Administrative Practices

6A. Overview

Objective: Maintaining effective and efficient business and administrative practices at Jefferson Lab.

Key Indicator (70 points)

6.0 Peer Review

General Charge to Peer Review Panel: With DOE concurrence, SURA will issue the charge to the Panel. Generally, the charge will be to assess the overall strengths and weaknesses of the Laboratory's business and administrative infrastructure, with a special focus each year on one of these Secondary Indicator Areas below. More detailed guidance will be developed based on special circumstances at the time of the review. To achieve this objective, review each major overhead/indirect cost area. Areas to be reviewed include:

- Self assessment
- Contractual requirements and performance standards
- Annual objectives
- Internal audits
- External reviews
- Benchmarking efforts

The Panel will have access to Secondary Indicators as input to its review.

Frequency and Duration: Annually, three days, with final report due 30 days from last day of review

Panel composition: A five to six member panel, selected by mutual agreement of SURA and DOE, and consisting of CAO equivalents from private industry, national laboratories and the scientific community (including one from the Jefferson Lab user community).

Secondary Indicators (30 points)

FACILITIES MANAGEMENT (6 points)

Objective: To manage non-capital and GPP construction projects to maximize the expenditure of funds on actual construction and complete these projects on time and within budget. Real properties usage is optimized. Facilities are adequately maintained and operated to minimize life cycle costs.

6.1 Percentage of overrun on all projects greater than \$100K (contracted price). [1 point]

6.2 Variance of scheduled completion time for projects greater than \$100K and of annual milestones of multi-year projects greater than \$100K. [1 point]

6.3 Percentage of scheduled preventive maintenance tasks completed by their scheduled due dates. [2 points]

6.4 Average percentage of open corrective maintenance tasks (not including those designated Discretionary) that have been open for greater than 3 months. [2 points]

PROPERTY MANAGEMENT AND PROTECTION (6 points)

Objective: Establish, implement and maintain effective management practices for the control, utilization and disposal of personal property, promote cost economies and efficiencies that result in improved processes, customer satisfaction and the elimination of waste. Such practices cross programmatic lines and contribute to the mission accomplishment of DOE and/or the Laboratory. The Laboratory will, in addition, ensure effective protection of proprietary information, personnel, property and the general public in an effective, cost efficient, risk based and graded manner.

6.5 Percentage of value of property not located during the inventory cycle for each of the inventories conducted: capital equipment (biannual - odd fiscal years only), sensitive items (annual), and stores (annual). [5 points]

6.6 Stores Inventory metric¹. [1 point]

FINANCIAL MANAGEMENT (6 points)

Objective: Assure effective planning, execution, and monitoring of budgets. Assure effective cash and debt management. Assure cost accounting system is in compliance with Cost Accounting Standards and that Disclosure Statement is current, complete, accurate, and reflective of the accounting system; assure financial practices are in conformance with the approved Disclosure Statement. Assure indirect cost activities are well managed. Assure SURA's internal audit control program maintains accuracy of the financial data, safeguards DOE assets, and prevents fraud, waste, and abuse.

6.7 Number of Cost Accounting Standards violations resulting from nonconformance with the approved Disclosure Statement, unless following DOE directives. [1 point]

6.8 Dollar percentage of invoices presented for payment deemed unallowable by the Contracting Officer as highlighted in the annual transaction testing audit and any IG audits that take place during the year. [1 point]

6.9 Percentage of vendor invoices paid with discounts lost. [1 point]

¹ This metric will be defined and submitted by 3/31/2000 in conjunction with the DOE Site Office.

6.10 Percentage of annual actual cost variance from budget for each overhead pool. [1 point]

6.11 Number of occurrences that the monthly Cost Management Report (533M) had to be resubmitted to the DOE Contracting Officer to correct erroneous data reported by the Lab. [1 point]

6.12 Number of travel expense reports taken from a 10% random sample of Department audited expense reports that contained an error exceeding \$100 that was not detected at the time the expense report was originally audited by Business Services. [1 point]

PROCUREMENT (6 points)

Objective: Assure procurement functions are carried out so as to be cost effective, meet contractual requirements, satisfy customers' needs, and meet socioeconomic goals.

6.13 Average procurement cycle time to award a small purchase order above the micro-purchase threshold (all actions >\$2,500 <\$100,000). [3 points]

6.14 Percent of total available purchasing dollars awarded to: small business concerns; small women-owned business concerns; and small disadvantaged business concerns. [3 points]

HUMAN RESOURCES AND SERVICES (6 points)

Objective: Attract and retain a diverse workforce capable of successfully executing Jefferson Lab's mission. Provide a workplace environment conducive to employee well-being and growth. Maintain innovative compensation practices aligned with the market place to attract and retain a diverse, well-trained workforce. Maintain innovative and cost-effective health care programs aligned with the commercial market place for similarly situated workforce programs.

6.15a Percent of action oriented diversity commitments, as established in the Affirmative Action Plan (AAP) completed during the fiscal year. [1 point]

6.15b Representation of protected classes (PC) within each EEO-1 category at the end of the fiscal year compared to the beginning of the fiscal year (adjusted for voluntary separations). [1 point]

6.16 Sustainable EEOC charges. [1 point]

6.17 Achieve compensation positions aligned with market practices to reflect the Lab's mid-market compensation philosophy. [1.5 points]

6.18 Percent of three-year rolling average of annual increases in premium cost relative to market. [1.5 points]

6B. Performance Evaluation Plan

6.0 Peer Review [70 Points]

Introduction:

The "Key Indicator" for this performance objective will be based on a "peer review" of the Laboratory's administrative system. Associated with the peer review are a set of secondary indicators (performance measures 6.1 - 6.18 listed below) that will be used to monitor the Laboratory's administrative performance in a more detailed way and to extend the validity of the peer review.

Scoring: The Peer Review Panel will assign an adjectival rating to the performance of the laboratory in producing quality business and administrative practices, and an associated percentage of the Key Indicator points within the ranges associated with that rating, according to the following Table:

Adjectival Rating	% of Assigned Points
Outstanding	90 to 100
Excellent	80 to < 90
Good	70 to < 80
Marginal	60 to < 70
Unsatisfactory (Poor)	50 to < 60
Unsatisfactory (Failing)	0 to < 50

FACILITIES MANAGEMENT (6 points)

6.1 Percentage of overrun on all projects greater than \$100K (contracted price) [1 point]

Introduction:

Maintain level of construction control to limit change orders and cost overruns to only those which bring added value to the project or are appropriate to produce the desired end product.

Performance level will be calculated from the initial bid (contracted) amounts compared to the final contract amounts considering all applicable funding increases for all appropriate contracts closed out during the rating period. Increases considered not applicable are those whose root cause is:

- Post-design programmatic change by user (physical or schedule)
- New technology deemed a value-added inclusion (post-award)
- Value engineering proposals accepted (both additive and deductive)

Value determined will be expressed as a percent overrun.

Performance Level = $[(\text{Applicable Final Contract Cost} / \text{Initial Contract Amount}) - 1] * 100$

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
≤ 8%	Outstanding	100
> 8% to ≤ 12%	Excellent	85
> 12% to ≤ 18%	Good	75
> 18% to ≤ 25%	Marginal	60
> 25% to ≤ 35%	Unsatisfactory (Poor)	50
> 35%	Unsatisfactory (Failing)	0

6.2 Variance of scheduled completion time for projects greater than \$100K and of annual milestones of multi-year projects greater than \$100K. [1 point]

Introduction:

Calculation of performance toward this goal will be made by comparing the actual number of days to completion of an identified project (or to a designated milestone) to the number specified contractually. This will be expressed as a coefficient of actual divided by contracted. Additional time attributed to the following categories will not be included for the purpose of this metric:

- Acts of God (as contractually accepted)
- Labor disputes/strikes
- Documented material unavailability (contractually accepted)
- User desired post-award change orders for which additional time is appropriate

Scoring: For purposes of this report, “completion” shall be when the project is physically complete; turned over to user or beneficial occupancy taken.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
≤ 1.10	Outstanding	100
> 1.10 to ≤ 1.25	Excellent	85
> 1.25 to ≤ 1.30	Good	75
> 1.30 to ≤ 1.40	Marginal	60
> 1.40 to ≤ 1.50	Unsatisfactory (Poor)	50
> 1.50	Unsatisfactory (Failing)	0

6.3 Percentage of scheduled preventive maintenance tasks completed by their scheduled due dates. [2 points]

Scoring:

$$\text{Performance Level} = \frac{\text{PMs completed as scheduled}}{\text{PMs scheduled}}$$

where PM is defined to be Total Preventive Maintenance actions scheduled per unit time. Activities considered for FY2000 will include mechanical equipment, electrical distribution system, and fire detection/suppression system (water based) subcontracted maintenance. Tasks

that are prohibited by operations and so documented will be rescheduled. The new completion date will be used for performance level calculation.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
≥ 94%	Outstanding	100
≥ 90% to < 94%	Excellent	90
≥ 84% to < 90%	Good	75
≥ 79% to < 84%	Marginal	60
≥ 75% to < 79%	Unsatisfactory (Poor)	50
< 75%	Unsatisfactory (Failing)	0

6.4 Average percentage of open corrective maintenance tasks (not including those designated Discretionary) that have been open for greater than 3 months. [2 points]

Scoring: Identified maintenance needs will be categorized as follows:

- Corrective Maintenance (CM) - Critical tasks which could lead to greater problems or costs within a 3-6 month period if corrective maintenance is not accomplished in a timely manner.
- Discretionary Corrective Maintenance (DCM) - Identified problems that should be accomplished for system integrity, but do not fit the criticality for CM designation.

The performance level will be compiled on a quarterly basis from input provided by the maintenance subcontractors as addressed in Indicator 6.3. Only data relative to CM tasks will be used in the calculations, and the ratio will be obtained by:

$$\text{Performance Level} = \frac{\text{CMs open} > 3 \text{ months}}{\text{CMs open}}$$

The comments of Indicator 6.3 relative to operations interference apply.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
< 10%	Outstanding	100
> 10% to ≤ 18%	Excellent	85
> 18% to ≤ 28%	Good	75
> 28% to ≤ 35%	Marginal	60
> 35% to ≤ 40%	Unsatisfactory (Poor)	50
> 40%	Unsatisfactory (Failing)	0

PROPERTY MANAGEMENT AND PROTECTION (6 points)

6.5 Percentage of value of property not located during the inventory cycle for each of the inventories conducted: capital equipment (biannual - odd fiscal years only), sensitive items (annual), and stores (annual). [5 points]

Scoring:

Performance Level = [(Value of property not located during each of the inventories / Corresponding value of property for each class inventoried) * 100]

<u>Submeasure</u>	<u>Frequency</u>	<u>Odd Years</u>	<u>Even Years</u>
6.5a Capital Equipment	biannual	2 points	0 pts. (not conducted)
6.5b Sensitive	annual	2 points	4 points
6.5c Stores	annual	1 point	1 point

<u>Performance Level</u>	<u>Adjectival Rating</u>	<u>% of Maximum Assigned Points</u>
< 1%	Outstanding	100
≥ 1% to < 1.5%	Excellent	85
≥ 1.5% to < 2%	Good	70
≥ 2.0% to < 3%	Marginal	55
≥ 3.0% to < 4.0%	Unsatisfactory (Poor)	40
≥ 4.0%	Unsatisfactory (Failing)	0

6.6 Stores Inventory turnover rate. [1 point]

This metric is being developed in order to accurately measure performance related to the transition of the stockroom from the construction phase to the steady state phase of the Lab. Final metric to be submitted by 3/31/2000.

FINANCIAL MANAGEMENT (6 points)

6.7 Number of Cost Accounting Standards violations resulting from nonconformance with the approved Disclosure Statement, unless following DOE directives. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
no violations	Outstanding	100
one violation	Excellent	85
two violations	Good	70
three violations	Marginal	55
four violations	Unsatisfactory (Poor)	40
five violations	Unsatisfactory (Failing)	0

6.8 Dollar percentage of invoices presented for payment deemed unallowable by the Contracting Officer as highlighted in the annual transaction testing audit and any IG audits that take place during the year. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% to 1%	Outstanding	100
< 1% to 2%	Excellent	85
< 2% to 3%	Good	70
< 3% to 4%	Marginal	55
< 4% to 5%	Unsatisfactory (Poor)	40
< 5%	Unsatisfactory (Failing)	0

6.9 Percentage of vendor invoices paid with discounts lost. [1 point]

Scoring: The measure of percentage of invoices available for discount and not successfully taken as a percentage of invoices processed with discounts plus invoices with discounts lost are:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% to 1%	Outstanding	100
< 1% to 2%	Excellent	85
< 2% to 3%	Good	70
< 3% to 4%	Marginal	55
< 4% to 5%	Unsatisfactory (Poor)	40
< 5%	Unsatisfactory (Failing)	0

6.10 Percentage of annual actual cost variance from budget for each overhead pool. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% to 3.0% variance	Outstanding	100
3.1% to 6.0% variance	Excellent	85
6.1% to 9.0% variance	Good	70
9.1% to 12.0% variance	Marginal	55
12.1% to 15.0% variance	Unsatisfactory (Poor)	40
> 15% variance	Unsatisfactory (Failing)	0

6.11 Number of occurrences that the monthly Cost Management Report (533M) had to be resubmitted to the DOE Contracting Officer to correct erroneous data reported by the Lab. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0 occurrences	Outstanding	100
1 occurrence	Excellent	85
2-3 occurrences	Good	70
4-5 occurrences	Marginal	55
6-7 occurrences	Unsatisfactory (Poor)	40
> 8 occurrences	Unsatisfactory (Failing)	0

6.12 Number of travel expense reports taken from a 10% random sample of Department audited expense reports that contained an error exceeding \$100 that was not detected at the time the expense report was originally audited by Business Services. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% -2.0%	Outstanding	100
2.1% - 5.0%	Excellent	85
5.1% - 10%	Good	70
10.1% - 15%	Marginal	55
15.1% - 20%	Unsatisfactory (Poor)	40
> 20%	Unsatisfactory (Failing)	0

PROCUREMENT (6 points)

6.13 Average procurement cycle time to award a small purchase order above the micro-purchase threshold (all actions >\$2,500 <\$100,000). [3 points]

Introduction:

Procurement cycle time is based on the date the purchase requisition is received in Procurement until the action is awarded, but does not include the time required to establish new vendors or time required by Jefferson Lab requisitioners to correct deficient requisition documentation.

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
Less than 14 Calendar Days	Outstanding	100
> 14 to < 21 Calendar Days	Excellent	85
> 21 to < 35 Calendar Days	Good	70
> 35 to < 42 Calendar Days	Marginal	55
> 42 to < 49 Calendar Days	Unsatisfactory (Poor)	40
> 49 Calendar Days	Unsatisfactory (Failing)	0

6.14 Percent of total available purchasing dollars awarded to: small business concerns; small women-owned business concerns; and small disadvantaged business concerns. [3 points]

Introduction:

- Total estimated dollar value of all planned subcontracting (to Large and Small Business concerns): \$12,200,000.
- "Total Available Purchasing Dollars" excludes: (i) awards to Government sources (including awards on GSA price schedules to large business firms); (ii) awards to nonprofit institutions (including but not limited to universities and national labs); (iii) awards to foreign sources; and (iv) micropurchases (awards ≤ \$2,500).
- Awards to women-owned business concerns, and small disadvantaged business concerns will be counted for every Submeasure that is applicable.

FY99 Peak Performance Goals (PPG):

- Submeasure 6.14a: Award 45% of total available purchasing dollars (est. \$5,490,000) to small business concerns (1 point)
- Submeasure 6.14b: Award 6% of available purchasing dollars (est. \$732,000) to women owned business concerns (1 point)
- Submeasure 6.14c: Award 6% of available purchasing dollars (est. \$732,000) to small disadvantaged business concerns (1 point)

Scoring: In each submeasure, scoring relative to peak performance goals will be:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
100%	Outstanding	100
90% to < 100%	Excellent	85
70% to < 90%	Good	70
60% to < 70%	Marginal	55
50% to < 60%	Unsatisfactory (Poor)	40
< 50%	Unsatisfactory (Failing)	0

HUMAN RESOURCES AND SERVICES (6 points)

6.15a. Percent of action oriented diversity commitments, as established in the Affirmative Action Plan (AAP), Section VII-C, completed during the fiscal year. [1 point]

Scoring: AAP Assessment Factor =
$$\frac{\text{\# of action oriented diversity commitments}}{\text{Total \# of action oriented diversity commitments}}$$

Performance Levels	Adjectival Rating	% of Maximum Assigned Points
Achieve \geq 90% of diversity commitments	Outstanding	100
Achieve 80% to < 90% of diversity commitments	Excellent	85
Achieve 70% to < 80% of diversity commitments	Good	70
Achieve 55% to < 70% of diversity commitments	Marginal	55
Achieve less 55% of diversity commitments	Unsatisfactory	40

6.15b. Representation of protected classes (PC) within each EEO-1 category at the end of the fiscal year compared to the beginning of the fiscal year (adjusted for voluntary separations). [1 point]

Scoring: PC Assessment Factor =
$$\frac{\% \text{ of PC to total workforce at the end of FY99 within each EEO-1 category}}{\% \text{ of PC to total workforce at the beginning of FY99 within each EEO-1 category}}$$

where:

Total Workforce = Total number of regular and term employees
(excludes casuals, temps, and students)

EEO-1 Category = Occupational job categories as defined by EEOC (N=10)

Protected Classes (PC) = Women and minorities as defined by EEOC
(N = 20): 2PC * 10 EEO-1 categories

Note: EEO-1 categories where Utilization percentages meet or exceed Availability percentages are determined to be fully in compliance with this metric.

Performance Levels	Adjectival Rating	% of Maximum Assigned Points
Maintain beginning PC factor in 100% of protected classes	Outstanding	100
Maintain 85% to < 100% of protected classes	Excellent	85
Maintain 70% to < 85% of protected classes	Good	70
Maintain 50% to < 70% of protected classes	Marginal	55
< 50% of protected classes	Unsatisfactory	40

6.16 Sustainable EEOC charges. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0 charges	Outstanding	100
1 charge	Good	80
> 1 charge	Unsatisfactory	0

6.17 Achieve compensation positions aligned with market practices to reflect the Lab's mid-market compensation philosophy. [1.5 points]

Scoring: Compensation Factor =
$$\frac{\sum (\text{weighted average salary within each classification})}{\sum (\text{weighted salary range midpoint* within each classification})}$$

*Assumes salary range midpoints reflect mid-market position

Performance Level	Adjectival Rating	% of Maximum Assigned Points
Average salaries within +3.0% of market average	Outstanding	100
Average salaries within +3.1% to +5.0% of market average	Excellent	80
Average salaries within +5.1% to +7.0% of market average	Good	70
Average salaries within +7.1% to +10.0% of market average	Marginal	60
Average salaries greater than +10.0% of market average	Unsatisfactory	50

6.18 Percent of three-year rolling average of annual increases in premium cost relative to market. [1.5 points]

Performance Level	Adjectival Rating	% of Maximum Assigned Points
5% or more below market data	Outstanding	100
Up to 4.9% below market or no more than 2.0% above market	Excellent	80
2.1% to 5.0% above market	Good	70
5.1% to 8.0% above market	Marginal	60
8.1% to 12.0% above market	Unsatisfactory (Poor)	50
12.1% or more above market	Unsatisfactory (Failing)	0

7.0 Responsible Institutional Management

7A. Overview

Objective: To manage and operate Jefferson Lab in accordance with generally accepted quality management principles so as to achieve its mission goals in a cost effective manner while satisfying its customers, and providing a culture which builds trust and facilitates continuous improvement in all areas of the institution.

Key Indicator (100 points)

7.0 Peer Review

General Charge to Peer Review Panel: With DOE concurrence, SURA will issue the charge to the Panel. Generally, the charge will be to assess overall institutional management of Jefferson Lab with emphasis on the three criteria of strategic planning, managerial effectiveness, and organizational culture. More detailed guidance will be developed based on special circumstances at the time of the review. All other metrics provided for in this Appendix are made available to this committee as well as the results of external and internal reviews during the performance period.

Frequency and Duration: Two days every 2 years, divided between presentations, site tours/inspections, and report drafting. The final report is due 30 days from conclusion of review.

Panel composition: A panel selected by mutual agreement of SURA and DOE, and consisting of:

- 1 DOE Lab Director
- 1 CAO
- 1 Industrial Chief Scientist
- 1 University Provost or President with Scientific/Engineering Credentials
- 1 International Lab Director
- Chairs of the Outstanding Science and Technology Peer Review and of the Quality of Business and Administrative Practices Peer Review.

Prior to the selection of the panel members, the composition of the panel may be adjusted, by mutual agreement of SURA and DOE, to match the programs and activities of the Laboratory and the special circumstances to be addressed by the review.

Note: This review was held in FY96 and again in FY98. The same score achieved in FY96 was carried forward to FY97 and included in the FY97 performance evaluation calculation. The same score achieved in FY98 was carried forward to FY99 and included in the FY99 performance evaluation calculation. The score received in the upcoming FY2000 review will be carried forward and included in the FY2001 performance evaluation calculation.

7B. Performance Evaluation Plan

Peer Review Criteria:

Strategic Planning: (40%)

- Responsiveness to national scientific and technical priorities, to the DOE Strategic Plan and other DOE guidance, and to user community requirements in the development of the Jefferson Lab scientific program. Also includes "institutional citizenship" within the DOE lab system and with respect to the state and local communities.
- Identification and cultivation of core competencies that eliminate unnecessary duplication and overlap in advancing the national/international knowledge and resource base.
- Leadership on national/international scale in mission related competencies.

Managerial Effectiveness: (40%)

- Cost effective use of available resources to optimize benefits for the nation's scientific agenda.
- Consistently meets or exceeds established commitments
- Responsible programmatic, EH&S and administrative balance
- Cost reductions through process improvement and reengineering

Organizational Culture (20%)

- Advocacy of quality principles to enhance staff performance
- Open, accurate, timely internal and external communications, including communications with the state and local communities
- Promotes diversity
- Sustained high morale and productivity



Thomas Jefferson National Accelerator Facility
Operated by the Southeastern Universities Research Association for the U. S. Department of Energy

Distribution: Hermann Grunder Larry Cardman Nathan Isgur Ron Sundelin Sally Fisk
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MEMORANDUM

To: Contract Steering Committee
Jerry Conley
Wayne Skinner
Cristoph Leemann
Roy Whitney
John Mullin

From: Jennifer Moog, Administration Division Administrator

Subject: Final FY 2000 Appendix B

Date: February 1, 2000

A handwritten signature in dark ink, appearing to read "J. Moog", positioned to the right of the "From:" line.

Attached is the final version of the FY2000 Appendix B. This document is the result of various discussions and negotiations between staff from the Jefferson Lab and the DOE Site Office. The document reflects the agreed upon Appendix B performance metrics for use in FY 2000.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO.

M180

3. EFFECTIVE DATE

See Block 16C

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

U.S. Department of Energy
TJNAF Site Office
12000 Jefferson Avenue
Newport News, VA 23606

7. ADMINISTERED BY (If other than Item 6)

CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities
Research Association, Inc.
1200 New York Avenue, NW
Washington, D.C. 20005

(4)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

X

10B. DATED (SEE ITEM 13)

August 3, 1984

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(4) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X Clause H.35 "Contractor Contributions" and SURA's letter dated February 9, 2000.

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

1. The purpose of this modification is to revise clause H.35 entitled "Contractor Contributions" as attached.
2. All other terms and conditions remain the same.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

JOHN G. MULLIN

SR. VICE-PRESIDENT, OPERATIONS

15B. CONTRACTOR/OFFEROR

(Signature of person authorized to sign)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

16B. UNITED STATES OF AMERICA

BY James W. Skinner
(Signature of Contracting Officer)

16C. DATE SIGNED

2/25/00

CLAUSE H.35 - CONTRACTOR CONTRIBUTIONS

- (a) A sublease agreement separate from this contract has been executed between DOE and SURA, covering the Virginia Associated Research Campus (VARC) building and the property adjacent thereto.
- (b) The City of Newport News, Virginia has donated to SURA approximately 44.6 acres of land which SURA in turn conveyed to DOE in fee simple at no cost to the Government. The City also donated approximately 51.5 acres of land adjacent to the Government-owned site. SURA has, in turn, donated to DOE approximately 7.9 acres of land in fee simple free of charge.
- (c) The Commonwealth of Virginia has appropriated funds for employees and certain other funds to SURA for Jefferson Lab. The Commonwealth of Virginia employees have been and will continue to be under SURA's supervision; however, the salaries and benefits of the said employees are not reimbursable under this contract, except for overtime and any proportionate fringe benefits associated with overtime paid to such employees by the Commonwealth of Virginia. Any such overtime for which SURA reimburses the Commonwealth of Virginia shall be properly authorized by SURA and the amount thereof shall be in accordance with established Commonwealth of Virginia compensation policies. SURA shall continue to utilize funds contributed by the Commonwealth for the benefit of SURA and consistent with the requirements of the Commonwealth.
- (d) The Commonwealth of Virginia has also authorized SURA to expend a stated amount from the General Fund of the Commonwealth of Virginia as the Commonwealth's share in the development of certain technology transfer initiatives at Jefferson Lab. In addition, the SURA Board of Trustees has authorized funds for the development of the FEL facility. Expenditures of these and similar funds shall be made by SURA in accordance with an Accounting and Procurement Policies and Procedures document approved by SURA management, and the use of DOE rules and regulations which are designated for the expenditure of contract funds shall not be applicable to funds provided by the Commonwealth. SURA further agrees to: (1) Keep the Manager of the DOE Site Office advised of all key technical and management decisions of any project funded with Commonwealth of Virginia and SURA funds; and, (2) Hold the Department of Energy harmless for any cost associated with any agreement or subcontract solicitation, award or dispute when SURA intends to use Commonwealth of Virginia or SURA funds for any portion of the subject agreement or subcontract. "
- (e) The contributions to SURA by the Commonwealth of Virginia in the form of personnel and funds are not accountable to the Government. In addition, contributions to SURA by the SURA Board of Trustees in the form of funds are not accountable to the Government. However, SURA shall provide an annual report to the Contracting Officer on the amount of funds appropriated by the Commonwealth and the SURA Board of Trustees and the general purpose for which such funds were used.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. A181		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150			
				10B. DATED (SEE ITEM 13) August 3, 1984			
CODE		FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) Increase \$6,324.67							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
<input checked="" type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
<input type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).							
<input type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
<input checked="" type="checkbox"/> D. OTHER (Specify type of modification and authority) Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							

SEE FOLLOWING PAGES

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>James W. Skinner</u> (Signature of Contracting Officer)	16C. DATE SIGNED 2-29-00

1. The amount obligated under this contract is increased by \$6,324.67 and is changed from \$955,288,436.92 to \$955,294,761.59. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,680,000.00	10,463,575.00
WA	KB0102011	0.00	40,805,000.00	80,465,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	0.00	18,010,000.00	36,656,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820201000 (OP)	0.00	250,000.00	849,853.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	400,000.00	400,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	6,324.67	344,324.67	494,324.67
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
TOTAL		<u>\$6,324.67</u>	<u>\$73,803,976.67</u>	<u>\$955,294,761.59</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. A182		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
				10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 13) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$10,961,000

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
(X)	D. OTHER (Specify type of modification and authority) Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>James W. Skinner</u> (Signature of Contracting Officer)	16C. DATE SIGNED 3/28/00

1. The amount obligated under this contract is increased by \$10,961,000 and is changed from \$955,294,761.59 to \$955,255,761.59. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	200,000.00	5,880,000.00	10,663,575.00
WA	KB0102011	0.00	40,805,000.00	80,465,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	0.00	18,010,000.00	36,656,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820201000 (OP)	(250,000.00)	0.00	599,853.00
TC	820201000 (OP TSKER4015000019)	500,000.00	500,000.00	500,000.00
TC	820201000 (OP TSKER40150TJAAA)	9,432,000.00	9,432,000.00	9,432,000.00
TC	820201000 (OP TSKER40150I111J)	1,065,000.00	1,065,000.00	1,065,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	(5,000.00)	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	344,324.67	494,324.67
2Y	600305000 (OP AGR2000W003)	14,000.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	5,000.00	5,000.00	5,000.00
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
	TOTAL	\$10,961,000.00	\$84,764,976.67	966,255,761.59

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. M183	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)		
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)	CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(Y)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
					10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
				X	10B. DATED (SEE ITEM 13) August 3, 1984
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(Y)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
X	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 4/28/00

1. The purpose of this modification is to correct B&R code "820101000 (OP)" on modification A178. As a result of modification A182, B&R codes "820101000" and "820201000" are changed to read as follows:

Fund Type	B&R Code	Change	FY00	To Date
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	(250,000.00)	0.00	0.00
TC	820201000 (OP TSKER4015000019)	500,000.00	500,000.00	500,000.00
TC	820201000 (OP TSKER40150TJAA)	9,432,000.00	9,432,000.00	9,432,000.00
TC	820201000 (OP TSKER40150I111J)	1,065,000.00	1,065,000.00	1,065,000.00

2. As a result of modification A182, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	200,000.00	5,880,000.00	10,663,575.00
WA	KB0102011	0.00	40,805,000.00	80,465,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	0.00	18,010,000.00	36,656,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	(250,000.00)	0.00	0.00
TC	820201000 (OP TSKER4015000019)	500,000.00	500,000.00	500,000.00
TC	820201000 (OP TSKER40150TJAAA)	9,432,000.00	9,432,000.00	9,432,000.00
TC	820201000 (OP TSKER40150I111J)	1,065,000.00	1,065,000.00	1,065,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	(5,000.00)	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	344,324.67	494,324.67
2Y	600305000 (OP AGR2000W003)	14,000.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	5,000.00	5,000.00	5,000.00
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
TOTAL		<u>\$10,961,000.00</u>	<u>\$84,764,976.67</u>	<u>966,255,761.59</u>

3. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. A184		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		
7. ADMINISTERED BY (If other than Item 6)		CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005			9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
			10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
			10B. DATED (SEE ITEM 13) August 3, 1984	
CODE		FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$79,000

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(v)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
B.	THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
C.	THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
D.	OTHER (Specify type of modification and authority)
x	Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY <u>James W. Skinner</u> (Signature of Contracting Officer)	4/28/00

1. The amount obligated under this contract is increased by \$79,000 and is changed from \$966,255,761.59 to \$966,334,761.59. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	(200,000.00)	5,680,000.00	10,463,575.00
WA	KB0102011	(30,000.00)	40,775,000.00	80,435,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	109,000.00	18,119,000.00	36,765,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	500,000.00	500,000.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	9,432,000.00	9,432,000.00
TC	820201000 (OP TSKER40150I111J)	0.00	1,065,000.00	1,065,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	344,324.67	494,324.67
2Y	600305000 (OP AGR2000W003)	0.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	5,000.00	5,000.00
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	200,000.00	200,000.00	200,000.00
TOTAL		<u>\$79,000.00</u>	<u>\$84,843,976.67</u>	<u>966,334,761.59</u>

3. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. A185		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(f)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
						10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 13) August 3, 1984	
CODE		FACILITY CODE		11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) Increase \$67,000							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
(w) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: D. OTHER (Specify type of modification and authority) X Increase in obligation of funds in accordance with clause I.79, "Obligation of Funds"							
E. IMPORTANT: Contractor <input checked="" type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY <u>James W. Skinner</u> (Signature of Contracting Officer)	16C. DATE SIGNED 5/31/00

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

1. The amount obligated under this contract is increased by \$67,000 and is changed from \$966,334,761.59 to \$966,401,761.59. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0403011	40,000.00	40,000.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,680,000.00	10,463,575.00
WA	KB0102011	0.00	40,775,000.00	80,435,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	0.00	18,119,000.00	36,765,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	500,000.00	500,000.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	9,432,000.00	9,432,000.00
TC	820201000 (OP TSKER40150I111J)	0.00	1,065,000.00	1,065,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	344,324.67	494,324.67
2Y	600305000 (OP AGR2000W003)	0.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	5,000.00	5,000.00
2Y	600302000 (OP AGR2000W001)	27,000.00	27,000.00	27,000.00
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	200,000.00	200,000.00
TOTAL		<u>\$67,000.00</u>	<u>\$84,910,976.67</u>	<u>966,401,761.59</u>

3. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

A186

3. EFFECTIVE DATE

See Block 16C

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

7. ADMINISTERED BY (If other than Item 6)

CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

August 3, 1984

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$9,078,801.54

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Memorandum of Agreement entitled, "Developing Key Technologies & Designing Upgrades To Extend The Infrared Free Electron Laser's
	D. OTHER (Specify type of modification and authority) Output Power Beyond 10Kw" dated May 5, 2000

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

Dr. Jerry P. Draayer

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

06/30/00

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

6/30/00

(Signature of person authorized to sign)

(Signature of Contracting Officer)

1. The purpose of this modification is to:

- a. Incorporate the attached Statement of Work entitled "Statement of Work for Developing Key Technologies and Designing Upgrades to Extend the Infrared Free Electron Laser's Output Power Beyond 10KW" to Clause C.1 - STATEMENT OF WORK.
- b. Authorize \$9,029,126.21 to be charged under B&R Code 40 04 03 309 (AGR-00-F-0439) for reimbursable work in performance of the Statement of Work entitled "Statement of Work for Developing Key Technologies and Designing Upgrades to Extend the Infrared Free Electron Laser's Output Power Beyond 10KW."
- c. The amount obligated under this contract is increased by \$9,078,801.54 and is changed from \$966,401,761.59 to \$975,480,563.13. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	50,000.00	50,000.00	50,000.00
WA	KA0403011	0.00	40,000.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,680,000.00	10,463,575.00
WA	KB0102011	0.00	40,775,000.00	80,435,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,100,000.00	14,630,041.00
WA	KB0102012	0.00	18,119,000.00	36,765,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,248,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	535,000.00	1,070,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00

Fund Type	B&R Code	Change	FY00	To Date
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	9,029,126.21	9,029,126.21	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	(457,267.00)	42,733.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	(9,432,000.00)	0.00	0.00
TC	820201000 (OP TSKER40150111J)	(1,065,000.00)	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	457,267.00	457,267.00	457,267.00
TC	820201000 (OP TSKER40150111J CR40)	1,065,000.00	1,065,000.00	1,065,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	9,432,000.00	9,432,000.00	9,432,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	(324.67)	344,000.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	5,000.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	27,000.00	27,000.00
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	200,000.00	200,000.00
TOTAL		<u>\$9,078,801.54</u>	<u>\$93,989,778.21</u>	<u>975,480,563.13</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

ENCLOSURE (1) TO THE MEMORANDUM OF AGREEMENT

Statement of Work

Phase 1

Developing Key Technologies to Extend FEL Output Power to Beyond 10 kW

The DOE-ORO, having operated a Free Electron Laser at the 1.7 kW level, is now poised to determine what technical hurdles exist to scaling this system by in excess of an order of magnitude in power. Project funding is provided by the US Congress in FY00 and administered by ONR through the DoE contractor (SURA). Accordingly, the DOE-ORO shall direct SURA to develop and test key components applicable to the scaling of a high average power Free Electron Laser oscillator system to the 10 to 20 kW level. As a minimum these activities are to include:

1. Perform sub-system level analyses and designs of the Free Electron Laser as required to establish the technical design specifications of those sub-systems.
2. Specify, design, construct, and test a Rf power module suitable for operation of a FEL system at the 10 to 20 kW level while utilizing energy recovery. Specifically, this will produce RF power outputs in excess of 50 kW per unit in the injector region and 6 kW per unit in the main accelerator region.
3. Specify, design, construct, and test methods for improving the performance of High Voltage DC injector guns to levels of performance suitable for 10 to 20 kW FEL output, that is, capable of 10 mA output at >320 kV acceptable for insertion to a 1497 MHz linac. Incorporate technologies/approaches for improving quantum efficiencies and operating life span beyond present levels of performance.
4. Specify, design, construct and test a high power wiggler system with $K > 1$ suitable for operation with a 10 to 20 kW oscillator in the 2 to 10 micron wavelength region.
5. Specify, design, and prototype an optical system suitable for operation with a 10 to 20 kW oscillator in the 2 to 10 micron region, that is, capable of withstanding in excess of 100 kW of circulating average power.
6. Develop detailed specifications and component engineering designs of a magnetic transport system with an energy spread acceptance in excess of 6% full range at 200 MeV and with other transport characteristics suitable to support the operation of a 10 to 20 kW oscillator. Verify manufacturability through prototyping and tests as appropriate to verify proper performance.
7. Specify and develop other components found to be limiting scaling the laser to the 10 to 20 kW level including improvements to the srf system for high current capacity in excess of 10 mA and real estate gradient ratio in excess of 40% along with supporting cryogenics, and beam instrumentation systems. Prototype and test such components as appropriate to verify their performance.

8. Support system analyses to be performed by NRL, NPGS, and others as directed by ONR through the Contracting Officer's Representative (COR) to optimize the scaled system performance, operability, and compatibility with defense applications as identified by ONR. Provide analyses of superconducting FEL power and cost scaling physical laws to help guide future activities and make them compatible with the long-term device applications.
9. Support laser-material interaction and damage studies and associated experiment planning for potential users of the FEL Facility, including the ONR and ONR contractors. Coordinate user laboratory capabilities and planning with government, national laboratory, university, and industrial users of the FEL User Facility.
10. a. Manage the project by holding weekly technical meetings with Work Package Managers.
 - b. Provide monthly technical, cost and schedule status reports documenting earned value at the third level of the Work Breakdown Structure (WBS).
 - c. Develop remedial plans for any subsystem projected to finish more than 10% over budgeted cost or projected to delay laser system operation by more than two months.
 - d. Hold critical design reviews of each major subsystem (second level WBS hardware element) before awarding procurement subcontracts in excess of \$100K. Notify COR and the ONR technical point of contact of any such exceptions.
 - e. Present project reviews covering technical progress, cost, and schedule at the project commencement and at critical design reviews every six months thereafter.
 - f. Support ONR program reviews with written and oral presentations as directed by ONR through the COR.
 - g. Provide a final report summarizing the results of the program within six months of completion of installation.
 - h. Copies of all reports should be provided to the ONR technical point of contact.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 3 PAGES	
2. AMENDMENT/MODIFICATION NO. A187		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
				X		9B. DATED (SEE ITEM 11)	
						10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$359,607

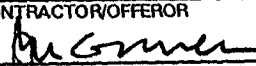
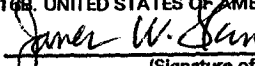
**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) JOHN G. MULLIN SR VICE PRESIDENT, OPERATIONS		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 7/31/00	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 7/31/00

1. The purpose of this modification is to:

- a. Incorporate Performance Metrics 6.6 entitled "Stores Inventory Turnover Rate" (See Attachment I) to Section 6 (Quality of Business and Administrative Practices) of the FY 2000 Jefferson Lab Performance Evaluation Plan in Appendix B of this contract.
- b. Increase the amount obligated under this contract by \$359,607 and the amount obligated is changed from \$975,480,563.13 to \$975,840,170.13. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	50,000.00	50,000.00
WA	KA0403011	0.00	40,000.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,680,000.00	10,463,575.00
WA	KB0102011	230,000.00	41,005,000.00	80,665,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	600,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	(1,643.00)	6,098,357.00	14,628,398.00
WA	KB0102012	0.00	18,119,000.00	36,765,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	(230,000.00)	(230,000.00)	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	50,000.00	585,000.00	1,120,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	20,000.00
WA	KP1402010 (EQU)	0.00	0.00	240,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY00</u>	<u>To Date</u>
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000(OP AGR00-0004)	11,250.00	30,000.00	11,250.00
YA	AT2540000	0.00	11,250.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	9,029,126.21	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	50,000.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	42,733.00	42,733.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	0.00
TC	820201000 (OP TSKER401501111J CR40)	0.00	457,267.00	457,267.00
TC	820201000 (OP TSKER40150TJAAA CR40)	300,000.00	1,365,000.00	1,365,000.00
TC	DP0404012 (OP)	0.00	9,432,000.00	9,432,000.00
TC	39DP04000	0.00	0.00	957,864.00
TC	39DP04040	0.00	0.00	644,134.00
2Y	600301010 (OP AGR98003105)	0.00	395,000.00	395,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR2000W003)	0.00	344,000.00	494,000.00
2Y	600305000 (OP AGR2000W002)	0.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W001)	0.00	5,000.00	5,000.00
SA	YN1901000	0.00	27,000.00	27,000.00
WA	EL1703000(OPFWP #EL17039)	0.00	(348.00)	98,652.00
WA	KB0401022	0.00	0.00	25,000.00
		0.00	200,000.00	200,000.00
	TOTAL	<u>\$359,607.00</u>	<u>\$94,349,385.21</u>	<u>975,840,170.13</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

FY 2000 Appendix B Performance Evaluation Plan
Property Management and Protection

6.6 Stores Inventory turnover rate.

6A. Overview (Page 42)

6.6 Reduction in the inventory of the Technical Stockroom by the amount of \$230,000 by September 30, 2000.

6B. Performance Evaluation Plan (Page 47)

6.6 Reduction in the inventory of the Technical Stockroom by the amount of \$230,000 by September 30, 2000.

Scoring:

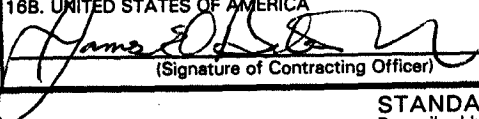
Performance Level = Percentage of Technical Stockroom inventory reduction measured by dividing the total dollar stockroom inventory transferred to Property Management by the dollar value of the JLAB Technical Stockroom shelf inventory as of February 29, 2000. [1 point]

Performance Level %	Adjectival Rating	% Maximum Assigned Point
>- 22	Outstanding	100
>- 21 to <22	Excellent	85
>- 19 to <21	Good	75
>- 18 to <19	Marginal	60
>- 17 to <18	Unsatisfactory (Poor)	50
< 17	Unsatisfactory (Failing)	0

ATTACHMENT I

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 3 PAGES	
2. AMENDMENT/MODIFICATION NO. A188		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, Virginia 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research, Inc. 12000 New York Avenue, NW Washington, D.C. 2005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER 40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required) \$704,065.94 - Increase							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of funds."						
	D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>2</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 08/28/00

1. The purpose of this modification is to:

The amount obligated under this contract is increased by \$704,065.94 and is changed from \$975,840,170.13 to \$976,544,236.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	50,000.00	50,000.00
WA	KA0403011	0.00	40,000.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,680,000.00	10,463,575.00
WA	KB0102011	(930,000.00)	40,075,000.00	79,735,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	930,000.00	1,230,000.00	1,530,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	6,098,357.00	14,628,398.00
WA	KB0102012	0.00	18,119,000.00	36,765,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(230,000.00)	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	585,000.00	1,120,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	55,600.00	55,600.00	75,600.00
WA	KP1402010 (EQU)	99,400.00	99,400.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00

Fund Type	B&R Code	Change	FY00	To Date
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
1Y	650102000(OP AGR00-0004)	49,065.94	60,315.94	60,315.94
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	9,029,126.21	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	42,733.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	(500,000.00)	(42,733.00)	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	500,000.00	1,865,000.00	1,865,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	500,000.00	9,932,000.00	9,932,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	344,000.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	5,000.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	27,000.00	27,000.00
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	200,000.00	200,000.00
TOTAL		<u>\$704,065.94</u>	<u>\$95,053,451.15</u>	<u>976,544,236.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

A189

3. EFFECTIVE DATE

See Block 16C

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (if applicable)

ISSUED BY

CODE

7. ADMINISTERED BY (if other than Item 6)

CODE

Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

Base \$200,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

CONTRACTOR/OFFEROR

15C. DATE SIGNED

James W. Skinner, Contracting Officer

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

1. The amount obligated under this contract is increased by \$200,000 and is changed from \$976,544,236.07 to \$976,744,236.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY00	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	50,000.00	50,000.00
WA	KA0403011	0.00	40,000.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	60,000.00	5,740,000.00	10,523,575.00
WA	KB0102011	0.00	40,075,000.00	79,735,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	1,230,000.00	1,530,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	140,000.00	6,238,357.00	14,768,398.00
WA	KB0102012	0.00	18,119,000.00	36,765,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB0102000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(230,000.00)	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	585,000.00	1,120,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	55,600.00	75,600.00
WA	KP1402010 (EQU)	0.00	99,400.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00

Fund Type	B&R Code	Change	FY00	To Date
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	30,000.00	253,469.00
1Y	650102000(OP AGR00-0004)	(49,065.94)	11,250.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	9,029,126.21	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	42,733.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	(42,733.00)	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	1,865,000.00	1,865,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	9,932,000.00	9,932,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	395,000.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	344,000.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	14,000.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	5,000.00	5,000.00
2Y	600302000 (OP AGR2000W001)	49,065.94	76,065.94	76,065.94
SA	YN1901000	0.00	(348.00)	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	200,000.00	200,000.00
TOTAL		<u>\$200,000.00</u>	<u>\$95,253,451.15</u>	<u>\$976,744,236.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

A190

3. EFFECTIVE DATE

See Block 16C

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

U.S. Department of Energy

TJNAF Site Office

1200 Jefferson Avenue

Newport News, VA 23606

7. ADMINISTERED BY (If other than Item 6)

CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

August 3, 1984

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$1,940,000 ✓

*entered into HHS
11-16-00 gvr*13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X

Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

OCT16'0011:15REC ORFSC

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

James W. Skinner, Contracting Officer

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

1. The amount obligated under this contract is increased by \$1,940,000 and is changed from \$976,744,236.07 to \$978,684,236.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	144,000.00	144,000.00	10,667,575.00
WA	KB0102011	1,100,000.00	1,100,000.00	80,835,411.00
WA	KB0102011 (AIP A001)	0.00	0.00	2,800,000.00
WA	KB0102011 (GPP)	88,000.00	88,000.00	1,618,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	0.00	14,768,398.00
WA	KB0102012	450,000.00	450,000.00	37,215,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	18,000.00	18,000.00	1,138,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	75,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00

OCT16*0011:15REC ORFSC

Fund Type	B&R Code	Change	FY01	To Date
			0.00	
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	65,000.00	65,000.00	1,930,000.00
TC	820201000 (OP TSKER40150TJAAA CR4)	65,000.00	65,000.00	9,997,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	76,065.94
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
	FS1000000	10,000.00	10,000.00	10,000.00
	TOTAL	<u>\$1,940,000.00</u>	<u>\$1,940,000.00</u>	<u>978,684,236.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. A191		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6) CODE	
U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150 10B. DATED (SEE ITEM 11) August 3, 1984	
CODE				FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$2,500,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES**

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>James D. Baxter Jr.</i> (Signature of Contracting Officer)	16C. DATE SIGNED 10/9/00
(Signature of person authorized to sign)			

Contract No. DE-AC05-84ER40150

Modification No. A191

Page 2 of 3

1. The amount obligated under this contract is increased by \$2,500,000 and is changed from \$978,684,236.07 to \$981,184,236.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	100,000.00	244,000.00	10,767,575.00
WA	KB0102011	700,000.00	1,800,000.00	81,535,411.00
WA	KB0102011 (AIP A001)	0.00	0.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	88,000.00	1,618,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	0.00	14,768,398.00
WA	KB0102012	1,530,000.00	1,980,000.00	38,745,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	18,000.00	1,138,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	10,000.00	10,000.00	85,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00

Contract No. DE-AC05-84ER40150

Modification No. A191

Page 3 of 3

Fund Type	B&R Code	Change	FY01	To Date
			0.00	
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150111J CR40)	65,000.00	130,000.00	1,995,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	65,000.00	130,000.00	10,062,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	76,065.94
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
	FS1000000	30,000.00	40,000.00	40,000.00
	TOTAL	<u>\$2,500,000.00</u>	<u>\$4,440,000.00</u>	<u>\$981,184,236.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

A192

3. EFFECTIVE DATE

October 15, 2000

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (if applicable)

6. ISSUED BY

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

7. ADMINISTERED BY (if other than Item 6)

CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

Increase \$2,760,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

10-19-00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

A192

3. EFFECTIVE DATE

October 15, 2000

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (if applicable)

6. ISSUED BY

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

7. ADMINISTERED BY (if other than Item 6)

CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

Increase \$2,760,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

10-19-00

Contract No. DE-AC05-84ER40150

Modification No. A192

Page 2 of 3

1. The amount obligated under this contract is increased by \$2,760,000 and is changed from \$981,184,236.07 to \$983,944,236.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	456,000.00	700,000.00	11,223,575.00
WA	KB0102011	1,000,000.00	2,800,000.00	82,535,411.00
WA	KB0102011 (AIP A001)	0.00	0.00	2,800,000.00
WA	KB0102011 (GPP)	212,000.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	100,000.00	100,000.00	100,000.00
WA	KB0102012 (EQU)	0.00	0.00	14,768,398.00
WA	KB0102012	520,000.00	2,500,000.00	39,265,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	12,000.00	30,000.00	1,150,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	10,000.00	20,000.00	95,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00

Contract No. DE-AC05-84ER40150

Modification No. A192

Page 3 of 3

Fund Type	B&R Code	Change	FY01	To Date
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150I111J CR40)	195,000.00	325,000.00	2,190,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	195,000.00	325,000.00	10,257,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	76,065.94
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	FS1000000	(40,000.00)	0.00	0.00
WA	FS1001100	100,000.00	100,000.00	100,000.00
TOTAL		<u>\$2,760,000.00</u>	<u>\$7,200,000.00</u>	<u>\$983,944,236.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE 1 OF 3 PAGES
2. AMENDMENT/MODIFICATION NO. A193		3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005			(X)	9A. AMENDMENT OF SOLICITATION NO.
				9B. DATED (SEE ITEM 11)
			X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
				10B. DATED (SEE ITEM 11) August 3, 1984
CODE		FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$2,800,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	10/23/00

Contract No. DE-AC05-84ER40150

Modification No. A193

Page 2 of 3

1. The amount obligated under this contract is increased by \$2,800,000 and is changed from \$983,944,236.07 to \$986,744,236.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	200,000.00	900,000.00	11,423,575.00
WA	KB0102011	1,390,000.00	4,190,000.00	83,925,411.00
WA	KB0102011 (AIP A001)	0.00	0.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	100,000.00	200,000.00	200,000.00
WA	KB0102012 (EQU)	500,000.00	500,000.00	15,268,398.00
WA	KB0102012 (01CG)	100,000.00	100,000.00	100,000.00
WA	KB0102012	400,000.00	2,900,000.00	39,665,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	40,000.00	70,000.00	1,190,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	10,000.00	30,000.00	105,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00

Contract No. DE-AC05-84ER40150

Modification No. A193

Page 3 of 3

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	325,000.00	2,190,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	325,000.00	10,257,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	14,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	76,065.94
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	60,000.00	160,000.00	160,000.00
TOTAL		<u>\$2,800,000.00</u>	<u>\$10,000,000.00</u>	<u>\$986,744,236.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1 OF 3 PAGES
2. AMENDMENT/MODIFICATION NO. A194		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
					10B. DATED (SEE ITEM 11) August 3, 1984
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$10,280

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
---	--

15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED 10/31/00
---	------------------	---	------------------------------

Contract No. DE-AC05-84ER40150

Modification No. A194

Page 2 of 3

1. The amount obligated under this contract is increased by \$10,280 and is changed from \$986,744,236.07 to \$986,754,516.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	900,000.00	11,423,575.00
WA	KB0102011	0.00	4,190,000.00	83,925,411.00
WA	KB0102011 (AIP A001)	0.00	0.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	200,000.00	200,000.00
WA	KB0102012 (EQU)	0.00	500,000.00	15,268,398.00
WA	KB0102012 (01CG)	0.00	100,000.00	100,000.00
WA	KB0102012	0.00	2,900,000.00	39,665,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	70,000.00	1,190,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	30,000.00	105,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00

Contract No. DE-AC05-84ER40150

Modification No. A194

Page 3 of 3

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150111J CR40)	0.00	325,000.00	2,190,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	325,000.00	10,257,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	6,000.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	4,280.00	4,280.00	80,345.94
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	160,000.00	160,000.00
TOTAL		<u>\$10,280.00</u>	<u>\$10,010,280.00</u>	<u>\$986,754,516.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

A195

See Block 16C

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;

or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$5,200,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

11-7-00

Contract No. DE-AC05-84ER40150

Modification No. A195

Page 2 of 3

1. The amount obligated under this contract is increased by \$5,200,000 and is changed from \$986,754,516.07 to \$991,954,516.07. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	200,000.00	1,100,000.00	11,623,575.00
WA	KB0102011	3,020,000.00	7,210,000.00	86,945,411.00
WA	KB0102011 (AIP A001)	0.00	0.00	2,800,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	200,000.00	200,000.00
WA	KB0102012 (EQU)	500,000.00	1,000,000.00	15,768,398.00
WA	KB0102012 (01CG)	100,000.00	200,000.00	200,000.00
WA	KB0102012	600,000.00	3,500,000.00	40,265,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	30,000.00	100,000.00	1,220,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	30,000.00	105,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00

Contract No. DE-AC05-84ER40150

Modification No. A195

Page 3 of 3

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150I111J CR40)	325,000.00	650,000.00	2,515,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	325,000.00	650,000.00	10,582,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	4,280.00	80,345.94
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	100,000.00	260,000.00	260,000.00
TOTAL		<u>\$5,200,000.00</u>	<u>\$15,210,280.00</u>	<u>\$991,954,516.07</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. A196		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$60,681,654.06

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 11/29/00

Contract No. DE-AC05-84ER40150

Modification No. A196

Page 2 of 3

1. The amount obligated under this contract is increased by \$60,681,654.06 and is changed from \$991,954,516.07 to \$1,052,636,170.13. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	4,420,000.00	5,520,000.00	16,043,575.00
WA	KB0102011	32,419,000.00	39,629,000.00	119,364,411.00
WA	KB0102011 (AIP A001)	1,275,000.00	1,275,000.00	4,075,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	(200,000.00)	0.00	0.00
WA	KB0102012 (EQU)	3,901,000.00	4,901,000.00	19,669,398.00
WA	KB0102012 (01CG)	(200,000.00)	0.00	0.00
WA	KB0102012 (EQU01CG)	1,018,000.00	1,018,000.00	1,018,000.00
WA	KB0102012	14,084,000.00	17,584,000.00	54,349,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	408,000.00	508,000.00	1,628,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	70,000.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0204010			
YA	KC0702000	0.00	0.00	11,943.00
YA	KC0701030	0.00	0.00	665,000.00
YA	KT0101017	0.00	0.00	5,000.00
YA	KT0101018	0.00	0.00	412,000.00
YA	KT0101019	0.00	0.00	31,350.00
YA	KT0101025	0.00	0.00	5,000.00
YA	KU0100000	0.00	0.00	9,702.00
YA	KT0201013	0.00	0.00	484,000.00
YA	WB0000000	0.00	0.00	87,300.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	29,800.00
1Y	650102000 (AGR94-002)	0.00	0.00	80,100.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	253,469.00
YA	AT2540000	0.00	0.00	11,250.00
3T	400403309 (OP AGR000096)	0.00	0.00	5,000.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	12,135.92
YA	KJ0102000	0.00	0.00	9,029,126.21
WA	KJ0200000	0.00	0.00	420,346.00
WA	KJ0101030	0.00	0.00	50,909.00
TC	820101000 (OP)	0.00	0.00	100,000.00
TC	820201000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	0.00
TC	820201000 (OP TSKER401501111J CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	650,000.00	2,515,000.00
TC	DP0404012 (OP)	3,200,000.00	3,850,000.00	13,782,000.00
TC	39DP04000	0.00	0.00	957,864.00
TC	39DP04040	0.00	0.00	644,134.00
TC	39DP08170	0.00	0.00	395,000.00
2Y	600301010 (OP AGR98003105)	44,000.00	44,000.00	44,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W002)	0.00	6,000.00	20,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	5,000.00
SA	YN1901000	9,654.06	13,934.06	90,000.00
WA	EL1703000(OPFWP.#EL17039)	0.00	0.00	98,652.00
WA	KB0401022	0.00	0.00	25,000.00
WA	FS1000000	0.00	0.00	200,000.00
WA	FS1001100	0.00	0.00	0.00
WA	FS1001500	87,000.00	347,000.00	347,000.00
WA	FS1005100	46,000.00	46,000.00	46,000.00
		100,000.00	100,000.00	100,000.00
	TOTAL	<u>\$60,681,654.06</u>	<u>\$75,891,934.06</u>	<u>\$1,052,636,170.13</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 3

2. AMENDMENT/MODIFICATION NO.

A197

3. EFFECTIVE DATE

See Block 16C

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Department of Energy
TJNAF Site Office
12000 Jefferson Avenue
Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

August 3, 1984

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$7,250,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X

Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

12/7/00

Contract No. DE-AC05-84ER40150

Modification No. A197

Page 2 of 3

1. The amount obligated under this contract is increased by \$7,250,000.00 and is changed from \$1,052,636,170.13 to \$1,059,886,170.13. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,520,000.00	16,043,575.00
WA	KB0102011	0.00	39,629,000.00	119,364,411.00
WA	KB0102011 (AIP A001)	0.00	1,275,000.00	4,075,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,901,000.00	19,669,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,018,000.00	1,018,000.00
WA	KB0102012	0.00	17,584,000.00	54,349,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	508,000.00	1,628,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00

Contract No. DE-AC05-84ER40150

Modification No. A197

Page 3 of 3

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	850,000.00	1,500,000.00	3,365,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	6,400,000.00	10,250,000.00	20,182,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	44,000.00	44,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	347,000.00	347,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
TOTAL		<u>\$7,250,000.00</u>	<u>\$83,141,934.06</u>	<u>\$1,059,886,170.13</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 3 PAGES	
2. AMENDMENT/MODIFICATION NO. A198		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$2,751,500

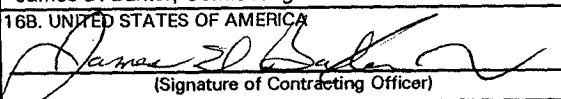
**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 12/29/80
(Signature of person authorized to sign)			

1. The amount obligated under this contract is increased by \$2,751,500.00 and is changed from \$1,059,886,170.15 to \$1,062,637,670.15. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	234,000.00	5,754,000.00	16,277,575.00
WA	KB0102011	1,310,000.00	40,939,000.00	120,674,411.00
WA	KB0102011 (AIP A001)	16,000.00	1,291,000.00	4,091,000.00
WA	KB0102011 (GPP)	0.00	300,000.00	1,830,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,901,000.00	19,669,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,018,000.00	1,018,000.00
WA	KB0102012	780,000.00	18,364,000.00	55,129,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	35,000.00	543,000.00	1,663,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	1,500,000.00	3,365,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	10,250,000.00	20,182,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	116,000.00	160,000.00	160,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	347,000.00	347,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
FG	GD0703000	145,500.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	115,000.00	115,000.00	115,000.00
TOTAL		<u>\$2,751,500.00</u>	<u>\$85,893,434.06</u>	<u>\$1,062,637,670.13</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

Performance Level (S)	Adjectival Rating	% of Assigned Points [†]
< 0.1 to 0.01	Outstanding	90 to 100
0.5 to 0.1	Excellent	80 to <90
1.0 to > 0.5	Good	70 to <80
5.0 to > 1.0	Marginal	60 to <70
10.0 to > 5.0	Unsatisfactory (Poor)	50 to <60
> 10.0	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels >10.0 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.2b Number of reportable and recordable exposures to hazardous substances as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

Introduction:

Goal: To have no exposures above an OSHA action level.

Qualifiers:

- Includes everyone on site (including adjacent space leased by SURA)
- ORPS thresholds are as defined in order 232.1, dated 9/25/95
- No more than three exposures are counted in a single incident

Data collection: Industrial Hygiene Staff report the information to EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected

Scoring: Based on exposures. Values assigned as follows:

- 0.1 for an exposure above an OSHA action level, but less than the ORPS off-normal threshold (2 times the OSHA permissible exposure level)
- 1.0 for an exposure above the ORPS off-normal threshold, but below the unusual occurrence threshold
- 5.0 for an exposure above the unusual occurrence threshold (5 times the OSHA permissible exposure level)

Performance Level is given by the sum (S) of these values

Performance Level (S)	Adjectival Rating	% of Assigned Points [†]
0.5 to 0.0	Outstanding	90 to 100
1.0 to > 0.5	Excellent	80 to <90
4 to > 1.0	Good	70 to <80
16 to > 4	Marginal	60 to <70
35 to > 16	Unsatisfactory (Poor)	50 to <60
> 35	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels >35 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

JEFFERSON LAB

FY2001

APPENDIX B

JEFFERSON LAB APPENDIX B

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Performance Evaluation by Performance-Based Metrics Overview

General

This Appendix sets forth the basis upon which an evaluation of the performance of the Thomas Jefferson National Accelerator Facility (otherwise known as "Jefferson Lab;" formerly CEBAF) performance will be based as required by contract Article 6 (Use of Objective Standards of Performance, Self Assessment and Performance Evaluation) and Article 7 (Performance Measure Review) of the contract. The evaluation procedure described below utilizes a set of "key indicators" which will broadly measure the laboratory's performance in eight critical areas. Associated with most "key indicators" (both peer reviews and performance metrics) is a set of "secondary indicators" which will measure the laboratory's performance in a more detailed way and extend the validity of each respective "key indicator." As it relates to Article 6 of the contract and the peer review process for the Science and Technology, Business and Administrative Practices and Responsible Institutional Management sections of the Performance Evaluation Plan, the parties agree that: (i) the panel will be selected by mutual agreement; and (ii) DOE will concur with the official charge to the panel prior to issuance by SURA.

Table B.1, Performance Objectives and Their Key Indicators, shows the eight performance objectives of this contract and their corresponding key indicators. Following this table are eight sections elaborating on each key indicator and listing the associated secondary indicators with established performance goals, where appropriate. A system for scoring performance in the eight categories and for integrating these scores into an overall evaluation rating for each performance period is provided under the subheading "Scoring Methodology." The parties agree to adhere to this system in arriving at the overall evaluation of the laboratory's performance against these measures. The schedule for performing the Laboratory evaluation is provided under the subheading "Appendix B Annual Appraisal Timeline." It is the intent of the parties to strictly adhere to this schedule although either party may request a revision to the proposed schedule.

For FY01, performance measures have been established in accordance with the annual reassessment process outlined in the paragraph entitled "Periodic Reassessment" and the FY00 results. The FY01 performance goals have been set based on: (i) the outcome of the FY00 performance measures in relation to the FY00 performance goals; and, (ii) other pertinent data.

Goal Setting

The primary considerations for selecting performance measures and setting goals at Jefferson Lab are:

- Performance measures should provide accurate, valid measures of performance in areas of importance to DOE and Laboratory management.

- The total set of measures should reflect priorities of DOE and Laboratory management and a proper balance of cost-benefit and return-on-investment.
- Setting goals that optimize the overall Laboratory mission frequently yields a more desirable result than goals which stress maximum quantitative performance in narrow areas. For instance, simply pushing for maximum accelerator availability might penalize highly specialized or difficult experiments with high scientific merit or impede accelerator development. In other areas, pushing for unreasonably high quantitative goals might divert limited resources from other more mission-oriented activities with little or no benefit.
- The broader the base of comparison of Jefferson Lab's performance with similar institutions, the greater the possibility of learning improved ways of performing activities and how important it is to perform those activities.
- Comparison with other facilities is most effective when objectives, constraints and hazards at the facilities are similar, or normalization is relatively simple.
- The performance measures, the comparison base, and the goals should be selected keeping in mind the ease of obtaining current comparison data.

Given these considerations, the DOE and SURA have agreed that the primary use of performance measures will be to compare the Laboratory's performance against the mission objectives of the Laboratory, taking into account the maturity of its various programs (e.g., the criteria to achieve an "outstanding" rating for a mature program would be different from that for a young program). The allocation of points among the performance objective categories is the first indication of this value judgment. The DOE/Laboratory Performance Measurement Teams were advised to select as broad a comparison area as practical in order to maximize the opportunity to improve systems and processes, but to define the performance measures and set the goals with the intent of enhancing the mission of the Jefferson Lab. While this approach requires a considerable exercise of judgment and somewhat limits a direct comparison with other facilities based on score, it presents the best opportunity to improve the overall performance of the Laboratory. This approach results in a mixture of broad performance measures where Laboratory performance can be quantitatively compared with other DOE and/or industrial facilities (such as property loss ratios), and measures that are much more unique to the mission of this Laboratory (such as Reliable Operations, Production of Scientific and Technical Manpower and Technology Transfer). A practice used extensively at Jefferson Lab that combines broad measures with measures very closely tailored to the mission of the Laboratory is the Peer Review concept. Depending on the function or category under review, technical and/or management personnel with similar responsibilities at other facilities review the Laboratory's performance as prescribed in a carefully constructed charter and arrive at a score or adjectival rating for that function or category. This practice makes available the experience and expertise of nationally recognized experts in various fields and provides maximum opportunity for knowledgeable feedback leading to performance improvement.

Performance Report

The Contractor will report on the results of its performance as defined by Appendix B at the end of each fiscal year. This Performance Report should include for each performance category, in addition to actual performance metric scores and/or peer review results, an overview self-assessment which includes: a brief description of major achievements; significant strengths and weaknesses; the status of responses to recommendations from the Peer Reviews, an assessment of whether the performance measures were valid indicators of performance; other lessons learned; principal areas of emphasis for improvement for the following fiscal year; and any recommended changes in performance measures or goals for the following fiscal year. A discussion of the Laboratory's overall performance and the major areas across the entire Lab that SURA perceives as the most important focus areas for the upcoming performance period will also be included.

The Department will use the Contractor's Performance Report along with other inputs to evaluate the Contractor's overall performance for each evaluation period. These other inputs include observations and results of inspections conducted by the Site Office staff, and programmatic/functional appraisals and reviews coordinated by the Site Office. As a means of incorporating these additional considerations, the parties have agreed that the Contracting Officer will develop an overlay performance report which will supplement the product of the performance measure process. This report will capture the highlights of the DOE Site Office observations/reviews, results of DOE appraisals, as well as other important information (including mitigating factors or events that may be outside the control of the contractor) that will be used to balance the overall performance assessment for the year. This overlay report will include a discussion of performance against regulatory and contract requirements that were not defined in terms of performance measures. The parties agree that the results from these assessment inputs could change the category rating and/or overall performance rating (up or down) by as much as one performance level.

Periodic Reassessment

As described in Article 6, the parties also agree to a reassessment of these performance measures prior to the beginning of each evaluation period. In particular, the parties agree to:

1. Assess the validity of each respective indicator as an accurate and meaningful reflector of performance (using the detailed secondary indicators and other criteria) and to replace them with more appropriate indicators if necessary;
2. Consider adding to or subtracting from the complement of secondary indicators in order to more meaningfully and accurately track vital performance objectives or to correct deficiencies in the more global key indicators; and
3. Consider adding or subtracting key indicators or secondary indicators as appropriate in response to the evolving requirements of DOE; in particular, both parties undertake to replace DOE Directives whenever feasible by performance metrics.

Scoring Methodology

The parties have agreed to the following scoring methodology:

A. POINT ALLOCATION: A 1030-point scale will be distributed among the eight performance objective categories as follows:

1. Outstanding Science and Technology	300 points
2. Reliable Operations	250 points
3. Production of Scientific and Technical Manpower	75 points
4. Corporate Citizenship	75 points
5. Quality Performance in EH&S	100 points
6. Business and Administrative Practices	100 points
7. Responsible Institutional Management	100 points
8. Spallation Neutron Source	30 points

Within each of the eight performance objective categories, the individual points have been allocated between the key indicator and the secondary indicators.

B. POINT SCALE: A grading scale will be used for rating each category and the overall performance evaluation as follows:

<u>Adjectival Rating</u>	<u>% of Points</u>
Outstanding	90% to 100%
Excellent	80% to < 90%
Good	70% to < 80%
Marginal	60% to < 70%
Unsatisfactory (Poor)	50% to < 60%
Unsatisfactory (Failing)	<50%

After applying the appropriate percentage to the points assigned for each indicator, accuracy at the one decimal point level will be retained.

C. RATING EACH CATEGORY: The following weighted average approach will be used to rate each of the eight performance objective categories:

1. For each performance measure, multiply performance percent achieved times the assigned points to arrive at the awarded points.
2. Sum the assigned points and sum the awarded points for all performance measures to arrive at a total for each (i.e., total assigned points and total awarded points).
3. Divide the total awarded points for the category by the total assigned points for the category and convert to a percentage.

4. Arrive at an overall adjectival rating for the category by using the point scale in paragraph (B) above.

In years where a new indicator which requires baselining might be added to the set, the Laboratory evaluation score will be based on paragraph (D) below.

D. OVERALL PERFORMANCE EVALUATION: The following methodology will be used to determine the overall performance rating:

1. Sum the assigned points and sum the awarded points for each performance measure being scored in the performance period. (For odd years, the same score achieved in Responsible Institutional Management from the prior year will be carried forward and included in the performance evaluation calculation).
2. Divide the awarded points by the assigned points. This percentage of 1030 is the laboratory's overall score for the evaluation period. This percentage is also used in Step #5, Section C, to provide a score for the baselined areas.
3. Arrive at the overall adjectival performance rating for the contract in accordance with Section B, above, on the point scale.
4. Incorporate the results of DOE Site Office overlay performance report as described in the paragraph entitled "Performance Report" on p.3 of this Appendix.

Contract Performance Annual Appraisal Timeline

<u>DATE</u>	<u>ELEMENT</u>
7/1/FY-1	Functional teams from DOE and SURA develop Performance Metrics.
9/1/FY-1	Performance Metrics due to the DOE Site Office Manager.
10/1/FY	DOE transmits final Performance Metrics to SURA.
4/15/FY	DOE performs mid-year status review.
9/30/FY	Evaluation period ends.
10/31/FY+1	SURA submits Performance Report
11/15/FY+1	DOE develops draft evaluation and transmits to SURA.
12/1/FY+1	SURA submits comments on draft evaluation.
12/15/FY+1	DOE transmits final report to SURA.

Table B.1: Performance Objectives and Their Key Indicators

Objective	Key Indicator	Points
1. Outstanding Science and Technology	Peer Review	300
2. Reliable Operations	Delivered Physics Research Operations	250
3. Production of Scientific and Technical Manpower	<ul style="list-style-type: none"> • Number of Student Years on Jefferson Lab-Related Research Activities • Total Number of Advanced Degrees Based on Jefferson Lab Research 	75
4. Corporate Citizenship	<ul style="list-style-type: none"> • Public Participation • Non-DOE Investment in Jefferson Lab Initiatives 	75
5. Quality Performance in Environment, Health & Safety	<ul style="list-style-type: none"> • Cost of Injuries • Environmental Permit Exceedences 	100
6. Quality of Business and Administrative Practices	Peer Review	100
7. Responsible Institutional Management	Peer Review	100
8. Spallation Neutron Source	Schedule Performance	30
		1030

1. Outstanding Science and Technology

1A. Overview

Objective: To produce outstanding science and technology.

Key Indicator (300 points):

1.0 Peer Review

General Charge to the Peer Review Panel: Using inputs from other science and technology program managers who sponsor significant work at Jefferson Lab and after consultation with SURA representatives, the DOE Division of Nuclear Physics (DNP) will issue the charge to the panel. Principally the charge will be to evaluate Jefferson Lab's contribution to the goals of the National Nuclear Physics Program, to rate the Jefferson Lab nuclear physics program relative to that of other international laboratories, and to evaluate the likely contributions of the Laboratory's proposed future program to this field and to science in general. The panel also would be asked to assess the effectiveness of laboratory operations and the overall scientific productivity of the laboratory.

As part of this charge, the panel would be specifically asked to examine the Laboratory's Advanced Accelerator Research and Development efforts and assess whether they are properly focused to support current and future Laboratory and national goals. The charge to the panel also would include a request that it evaluate the quality of the Laboratory's applied science and technology programs, and assess whether the current efforts directed toward them by the Laboratory are justified and whether the planned future direction and magnitude of these efforts appear appropriate relative to the primary mission of the Laboratory.

In addition, the panel would be requested to evaluate Laboratory management's use of discretion (where such discretion exists) in allocating resources among Laboratory science and technology priorities and whether prudent judgment was exercised in making such allocations.

More detailed guidance will be developed based on special circumstances at the time of the review.

Frequency and Duration: Annually, two days plus one day for report writing and closeout.

Panel Composition: A cross-cutting panel (including a chairperson) of internationally recognized scientists and engineers will be appointed by the DNP following consultation with other program managers who fund significant program activities at the Laboratory and with SURA.

Prior to the selection of the panel members, the composition of the panel may be adjusted, by mutual agreement of SURA and DOE, to match the programs and activities of the Laboratory and the special circumstances to be addressed by the review.

Conduct of the Review: The Director of DNP will select a chairperson (in consultation with SURA) and develop an agenda for the review based on the charge to the panel (in consultation with the chairperson and SURA).

In addition to the panelists appointed by the DNP, the Director of DNP and/or others whom he may designate will also participate in the review as a member of the panel. Consistent with the principles of the DOE+SURA partnership that are expressed in this contract, a representative selected by SURA will observe the deliberations of the panel and participate in panel discussions, including the executive sessions. This will assist SURA in performing its corporate oversight of the Laboratory.

Each panel member will be asked to submit individual reports to the chairperson following the review. The chairperson will submit a report to the Director of DNP that provides his/her personal assessment of the review and the review results and transmits the individual reports from the other panel members. The Director of DNP will make the reports available to SURA.

1B. Performance Evaluation Plan

Introduction:

It is widely accepted that while various numerical indicators can be useful as inputs, the overall scientific and technical quality of a research institution is best judged by peer review. Among the more reliable criteria on which the judgment of the Peer Review Panel should be based are:

1. Quality of the research program as evidenced by seminal experimental or theoretical results.
2. Effectiveness of operations (including an assessment from users) in support of the research program.
3. Major experimental or technological innovations resulting from work at Jefferson Lab.
4. Citations of papers or articles based on research carried out at Jefferson Lab and invited presentations at major international conferences based on Jefferson Lab results.

Other criteria deemed to be relevant also will be examined.

1.0 Peer Review

Scoring: Based on the individual reports of the panel members (including the chairperson), his own assessment, and following consultation with SURA, the Director of the Division of Nuclear Physics will assign an adjectival rating to the performance of the laboratory in producing Outstanding Science and Technology. A percentage of Key Indicator points within the range associated with the assigned rating will be awarded in accordance with the following table.

Adjectival Rating	% of Assigned Points
Outstanding	90 to 100
Excellent	80 to < 90
Good	70 to < 80
Marginal	60 to < 70
Unsatisfactory (Poor)	50 to < 60
Unsatisfactory (Failing)	<50

2. Reliable Operations

2A. Overview

Objective: Achieve reliable performance of the accelerator and detectors at required specifications to ensure the scientific success of the Laboratory.

Key Indicator (150 points):

2.0 Delivered physics research operations, as determined by the number of hours of simultaneous availability of the beams and the experimental equipment delivered.

Secondary Indicators (100 points):

2.1 Beam availability, as defined by the ratio of the time the beam is useful for the intended research program to the time it is scheduled for use during that period. [25 points].

2.2 Experimental equipment availability, as measured by the ratio of the time the equipment is operational at its design specifications in a particular configuration to the time it is scheduled for use in that configuration. [25 points]

2.3 The effectiveness of the scheduling process, as determined by the time that was scheduled to have elapsed between the publication of a firm accelerator schedule and the experiment's scheduled start date divided by the actual time between publication of a firm accelerator schedule and the date an experiment begins taking data. [25 points]

2.4 Overall operations effectiveness, defined as the ratio of the total time the accelerator is operated for physics (in weeks) to the total accelerator operations (in weeks) that was identified as the goal for the year during negotiations of the laboratory's operations budget. [25 points]

2B. Performance Evaluation Plan

Introduction:

Quantitative evaluation of performance in this area is measured against peak performance goals to be declared at the beginning of each evaluation period. A peak performance goal is one that corresponds to the maximum desirable performance in each area given anticipated technical and fiscal constraints. The Laboratory's long range "asymptotic" peak performance goals for each of the performance measures have been set by a joint laboratory-DOE team and will be reviewed by the team on an annual basis. These goals are listed in Table 2.1.

Table 2.1: Long Range Peak Performance Goals

Performance Measure	Indicator	Total Points Assigned	Description	Asymptotic Peak Performance Goal FY2001+
2.0	Delivered Physics Research Operations	150	Hours of physics research operations for which both beam and experimental equipment are simultaneously available	100% of research operations goal
2.1	Beam Availability	25	Percent of the scheduled time for which the beam is useful	80%
2.2	Experimental Equipment Availability	25	Percent of the scheduled time that the experimental equipment is operational	80%
2.3	Effectiveness of the Scheduling Process	25	How closely an experiment actually starts taking data relative to the scheduled start date	100%
2.4	Overall Operations Effectiveness	25	Percent of planned weeks of operations for physics that is delivered	100%

For secondary indicators 2.3 and 2.4, these peak performance goals apply immediately. For secondary indicators 2.1 and 2.2, the annual peak performance goals should reflect the anticipated turn-on curve for operations. Since the peak performance goal for the key indicator 2.0 is a function of secondary indicators 2.1 and 2.2, it too will reflect the anticipated turn-on curve for operations. Thus, the peak performance goals are adjusted as follows:

Table 2.2: Turn-On Peak Performance Goals* (PPG) for Indicators 2.1 and 2.2

Fiscal Year	Peak Performance Goals for Beam Availability (2.1) $A_{\text{accel-goal}}$ (See note below for adjustments)	Peak Performance Goals for Individual Halls included in the Base Experimental Equipment Availability Metric (2.2) $A_{\text{i-goal}}$
FY98	78%	78% (Hall C) 70% (Hall A) 55% (Hall B)
FY99	80%	80% (Hall C) 78% (Hall A) 70% (Hall B)
FY00	80%	80% (Halls A, C) 78% (Hall B)
+FY01-beyond	80%	80% (all Halls)

* before any adjustment for planned new capabilities

Once schedules are established for the three Halls in each year, the Key Indicator 2.0 peak performance goal will be determined by the product of the scheduled hours of beam operations for research, the hall and beam availabilities, and the multiplicity goal (# of halls that are to be operating simultaneously, on average). As the formula for determining the Key Indicator depends on quantities defined for the secondary indicators, we postpone a discussion of the key indicator until later in this section.

The nominal goals for the beam availability peak performance indicator 2.1 and for the individual hall experimental equipment availabilities that are folded together for the experimental equipment availability peak performance indicator 2.2 follow the anticipated curve for the accelerator learning curve (55% in the first year, 70% in the second, 78% in the third, and 80% in the fourth year and beyond). This same learning curve will be applied in the future whenever the accelerator or one of the experimental halls undergoes a major upgrade.

In addition, whenever a significant new capability is being commissioned (e.g., a substantial energy upgrade for the accelerator or a substantial addition to the hall base equipment) then the availability goal for the relevant capability shall be reduced by 10% for one quarter (corresponding to a reduction of 2.5% in the year's PPG for availability). The Lab and the DOE Site Office must both agree on any such reduction in the availability goal as part of the review of the goals at the beginning of the fiscal year. If the development of the new capability is later rescheduled and does not occur within the performance period, the reduction in the availability goal will be rescinded.

In FY01, we do not anticipate any substantial upgrade for the accelerator. However, it is planned to run for 19.9 weeks at the highest energy that the accelerator is capable of providing physics quality beam. This is defined as operation with less than 10% availability reduction due to RF trips. We therefore propose that the availability metric for 2001 be reduced by 5% for operation of the accelerator at a beam energy per pass greater than 1.1 GeV, equivalent to 5-pass energy above 5.5 GeV. This translates into an availability goal of 2001 of $80\% - (19.9/31 * 5) = 76.8\%$. In addition, uncertainty about how and when the present klystron issue is resolved may result in a further reduction of the availability goal by about 3 percentage points (i.e., from 76.8% to 73.8%).

Two of the three experimental halls have major installation work planned in FY01. In Hall C, the second G_n^E experiment will be installed, and in Hall B, the polarized photon source will be installed. Consequently, the hall availability goals for Hall C and Hall B should each be reduced by 2.5%. These adjustments lead to the values listed in Table 2.3 below. For FY01, the peak performance goals are:

Table 2.3: Peak Performance Goals for FY01

Indicator	Description	FY01 Peak Performance Goal
2.0	Hours of physics research operations for which both beam and experimental equipment are simultaneously available as scheduled	Calculate using the equation below
2.1	Percent of the scheduled time for which the beam is useful	76.8%*
2.2	Percent of the scheduled time that the experimental equipment is operational	Calculate using the equation below and the individual hall availability goals: 77.5% Hall C (E_c -goal) 80% Hall A (E_a -goal) 77.5% Hall B (E_b -goal)
2.3	How closely an experiment actually starts taking data relative to the scheduled start date	100%
2.4	Percent of the planned weeks of operations for physics that is delivered	100%

* This goal may be further reduced by 3 points, depending on resolution of the klystron problem.

For each indicator, the relationship between the percent of peak performance goal that is achieved and the percent of the maximum possible points for that indicator to be awarded will be:

1. If actual performance is at least 50% of agreed peak performance goal:
% of points awarded = % of peak performance goal achieved (no incremental points are awarded if the performance exceeds the peak performance goal).
2. If actual performance is less than 50% of agreed peak performance goal:
% of points awarded = $2 * (\% \text{ of peak performance goal achieved} - 25\%)$
3. If actual performance is less than 25% of agreed peak performance goal:
No points awarded.

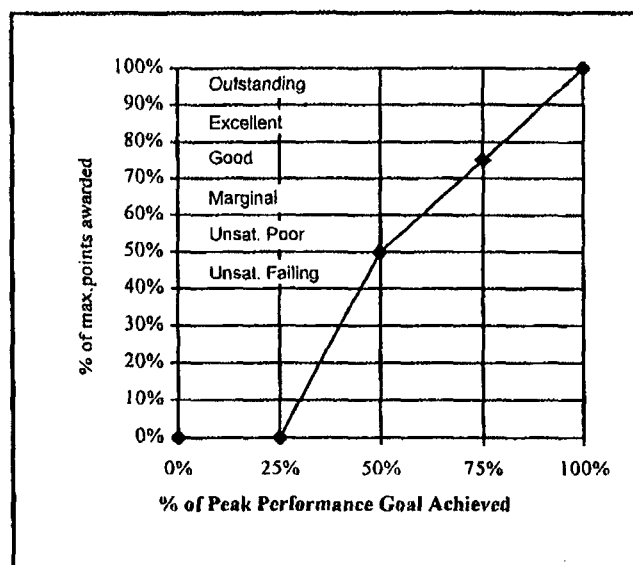


Fig. 2.1: Scoring as a % of Peak Performance Goal Achieved

To precisely quantify the peak performance goals for each performance metric, we begin by making the following definitions:

Table 2.4: Definitions

Quantity	Definition
S_i	The total number of hours assigned in the published schedule for experiments in Hall i
B_i	The beam availability for experiments in Hall i, as determined by the criteria defined below
S_{ad}	The total number of hours of accelerator development activities scheduled for the accelerator
B_{ad}	The beam availability for accelerator development activities as determined by criteria defined below
E_i	The experimental equipment availability for experiments in Hall i as determined by the criteria defined below
D_i	The fraction of the total time scheduled for experiments in Hall i when both the beam and experimental equipment are available and being used to carry out the planned scientific program
D_{ad}	The fraction of the total time scheduled for accelerator development activities that both the beam and the relevant test equipment are available and being used to carry out the planned development activities
t_{bs}	The date on which a firm beam schedule is released
t_{ss}	The date on which an experiment is scheduled to begin taking data as published in the firm beam schedule
t_{sa}	The actual date on which an experiment begins taking data
S_{beam}	The total number of hours in the published schedule that the accelerator is to provide beam for physics experiments
S_j	The total number of hours assigned to the j^{th} experiment in the published schedule

Details on the definitions of these quantities:

B_i , the beam availability for Hall i (where $i = a, b$, or c), is defined as the ratio of the time the beam is available for delivery to that hall to the time it is scheduled for delivery to that hall. The beam shall be considered as available for the experimental program when the beam quality deliverable to an experimental target lies within the nominal specifications and remains stable within defined limits over a thirty minute running period (see Table 2.5). Different specifications and stability limits may be used for specific experiments if agreed to in advance by both the Accelerator Division and the experiment spokesperson. Specifications for beam availability for accelerator development activities shall be defined in advance by the spokesperson for the development activity and the Accelerator Division.

E_i , the availability of the experimental equipment for hall i (where $i = a, b$, or c), is defined as the ratio of the time the equipment for that hall is operational at its design specifications in a particular configuration to the time it is scheduled for use in that configuration. The metric will initially consider only the "base" equipment as defined by the Jefferson Lab construction project. As new equipment is added to the base equipment (or as major new experimental apparatus is developed) it shall be treated separately following the availability goals established for the base equipment during its first two years of operation, and treated as part of the base equipment thereafter.

B_{ad} , the beam availability for accelerator development activities, is defined as the ratio of the time the beam is useful for these development activities to the time it is scheduled for such activities. Specifications for beam availability for accelerator development activities shall be defined in advance by mutual agreement between the spokesperson for the development activity and the Accelerator Division.

Table 2.5: Beam Requirements - General Characteristics

Parameter	Nominal Value and Range	Stability (for hours)
Beam Emittance: rms spot size for achromatic beam tune (1σ)	<u>Hall A:</u> $20\ \mu\text{m} < \sigma_x < 50\ \mu\text{m}$ $20\ \mu\text{m} < \sigma_y < 50\ \mu\text{m}$ <u>Hall B:</u> $20\ \mu\text{m} < \sigma_x < 70\ \mu\text{m}$ $20\ \mu\text{m} < \sigma_y < 70\ \mu\text{m}$ <u>Hall C:</u> $50\ \mu\text{m} < \sigma_x < 100\ \mu\text{m}$ $50\ \mu\text{m} < \sigma_y < 100\ \mu\text{m}$	25% of value
Beam Emittance: angular divergence (1σ)	$\sigma_x', \sigma_y' < 100\ \mu\text{r}$	25% of value
Beam position	0 μm (relative to optic axis)	rms deviation is less than 25% of the beam spot's rms radius
Beam direction	0 μr (relative to optic axis)	rms deviation is less than 25% of the beam angular divergence rms 1/2 cone angle
Energy (average)	0.5 - 4 GeV	<u>Hall A:</u> $< 3\ \text{E-4}$ <u>Hall B:</u> $< 1\ \text{E-3}$ <u>Hall C:</u> $< 1\ \text{E-3}$ (also $< 3\ \text{E-3}$ over days for all)
Energy Spectrum (1σ)	<u>Hall A:</u> $\sigma_E/E < 5\ \text{E-5}$ <u>Hall B:</u> $\sigma_E/E < 4.0\ \text{E-4}$ <u>Hall C:</u> $\sigma_E/E < 2.5\ \text{E-4}$	25% of value
Background (Beam Halo)	$< 1\text{E-6}$ of total current at 5σ (with diagnostic to be provided by the experiment)	any value within nominal range
Current (dc average) (Note: any single hall is restricted to $< 120\ \mu\text{A}$ unless it has exclusive use of the beam, and total current delivered to all 3 halls must be $< 180\ \mu\text{A}$)	<u>Hall A:</u> $40\ \text{nA} - 180\ \mu\text{A}$ <u>Hall B:</u> $1\ \text{nA} - 10\ \mu\text{A}$ <u>Hall C:</u> $40\ \text{nA} - 180\ \mu\text{A}$	within $\pm 10\%$ of value requested by experimenter
Polarization (current range to be determined by agreement between Physics and Accelerator Divisions)	$> 35\%$ (from bulk GaAs, with expected currents of order $100\ \mu\text{A}$) $> 75\%$ (from strained cathodes, with currents of order $30\ \mu\text{A}$ expected)	$\pm 10\%$ of value
Effective Duty Factor	$> 90\%$ (lower values may be negotiated with the Accelerator Division)	any value within the nominal range (90%-100%)
Proper Impingement on Beam Dump (raster)	rastered beam spot size $> 100\ \mu\text{m}$ stability of position $< 1\ \text{cm}$ (not including rastering)	

Scoring:

2.0 Delivered Physics Research Operations, $S_{\text{physics-research}}$, as determined by the number of hours of simultaneous availability of the beam and the experimental equipment. [150 points]

FY01 Peak Performance Goal (PPG): $S_{\text{physics-research-goal}} = S_{\text{beam}} A_{\text{sim-goal}} M_{\text{goal}}$ (hours)

Where $A_{\text{sim-goal}} = A_{\text{accel-goal}} E_{\text{t-goal}}$, the product of the goals for accelerator and experiment equipment availability, and M_{goal} is the goal for hall multiplicity, i.e., the average number of halls that are running any time the accelerator beam is available for physics. The product $S_{\text{beam}} A_{\text{sim-goal}}$

gives the number of hours of useful physics running that the accelerator and experimental equipment would deliver if both beam and experimental equipment availability goals were met (and assuming that there are no correlations in the causes of down-time for the accelerator and the experimental equipment). M_{goal} is nominally 2.0, reflecting our goal of running, on average, two halls simultaneously. The value of 2.0 is mainly based on a realistic assessment of the achievable multiplicity given the level of technical support available at the laboratory to assist in mounting and running experiments and our typical planning for major experiment installations each year. The multiplicity goal may be adjusted annually as part of the negotiations between DOE and laboratory management on the year's operating budget and staff levels.

In addition, M_{goal} will be reduced in any year that one or more of the halls are planned to be "down" for an unusual length, e.g., for a major upgrade of the apparatus or the installation of major new apparatus. There are no such reductions anticipated for FY01.

This is to be compared with the actual physics research operations, given by:

$$S_{\text{physics-research}} = S_a D_a + S_b D_b + S_c D_c \text{ (hours)}$$

If actual performance is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

2.1 The total beam availability, B_t , is the weighted average over the experimental and beam development activities scheduled of the beam availabilities for the individual experimental halls and for accelerator development activities. [25 points]

FY01 Peak Performance Goal (PPG): 76.8%

$$B_t = (B_a S_a + B_b S_b + B_c S_c + B_{ad} S_{ad}) / (S_a + S_b + S_c + S_{ad})$$

If actual performance (B_t) is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

2.2 The total availability of the base experimental equipment, E_t , is the average over all halls scheduled of the beam availabilities for the individual halls. [25 points]

FY01 Peak Performance Goal (PPG):

$$E_{t-goal} = (E_{a-goal}S_a + E_{b-goal}S_b + E_{c-goal}S_c)/(S_a + S_b + S_c)$$

and is calculated based on the published schedule for hall operations and the goals, E_{i-goal} , for the individual hall availabilities as listed in Table 2.3 above.

The actual availability to be compared with the goal above is:

$$E_t = (E_aS_a + E_bS_b + E_cS_c)/(S_a + S_b + S_c)$$

If actual performance (E_t) is at least 50% of agreed PPG (E_{t-goal}), then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

2.3 The effectiveness of the scheduling process, ϵ_{sched} , is the average performance with respect to start times for all experiments on the published, "firm" schedule, weighted according to the scheduled duration, S_j , of each experiment, of the ratio, R_j , of the actual start time to the scheduled start time for the j^{th} experiment. [25 points]

FY01 and beyond Peak Performance Goal (PPG): 100%

$$\epsilon_{sched} = (\sum S_j R_j) / (\sum S_j), \text{ where } R_j = (t_{ss} - t_{bs}) / (t_{sa} - t_{bs})|_j$$

If actual performance (ϵ_{sched}) is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

Notes:

- 1) The basic schedule will be issued every six months; it will confirm the remainder of the "firm" schedule which has been in progress for the preceding three months and announce the firm schedule for a period

extending to nine months from the date of issue and the tentative schedule for six months following the announced firm schedule.

- 2) Schedule changes requested by the experimenter or deemed mutually beneficial to both the experimenter and the laboratory shall be treated as if the changed date was listed in the original schedule for the purposes of calculating this sum.

2.4 Overall operations effectiveness, ϵ_{ops} , defined as the ratio of the total time the accelerator is operated for physics (in weeks) to the total accelerator operations (in weeks) that was identified as the joint expectation for the year during negotiations of the laboratory's operations budget. [25 points]

FY01 Peak Performance Goal (PPG): 100%

$$\epsilon_{ops} = (\text{weeks of accelerator operations for physics}) / (\text{weeks for accelerator ops in contract})$$

If actual performance (ϵ_{ops}) is at least 50% of agreed PPG, then % of points awarded = % of PPG achieved. No points are awarded if actual performance is less than 25% of agreed PPG.

Performance Level	Adjectival Rating	% of Assigned Points
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
25% to < 50% of PPG	Unsatisfactory (Failing)	2 * (% of PPG achieved - 25%)

3. Production of Scientific and Technical Manpower

3A. Overview

Objective: Jefferson Lab will contribute to the education and training of the future scientific/technical work force for the nation, emphasizing meaningful, unique research experiences at the forefront in its areas of physics and engineering and also emphasizing increasing the qualifications of underrepresented populations for scientific/technical careers.

Key Indicator (60 points):

3.0a Number of student years per year on Jefferson Lab-related research or technical activities. [35 points]

3.0b Total number of advanced degrees per year based on Jefferson Lab research. [25 points]

Secondary Indicators (15 points):

3.1 Number of advanced degrees per year (represented by a three-year average) granted by minority universities and based on Jefferson Lab research. [5 points]

3.2 Participation of students from groups traditionally underrepresented in physical science and engineering fields. [10 points]

3B. Performance Evaluation Plan

3.0a Number of student years per year on Jefferson Lab-related research or technical activities.
[35 points]

Methodology

The data collection process involves two major components: the administration of a Jefferson Lab Users Group Survey and a cross-check against the University Relations student inventory list. Surveys are sent to the complete Users Group. An initial response rate of 10-20% of the group of active users is considered reasonable. However, to understand the nature of the full population, a follow-up survey of one in 15 non-respondents will be conducted. This follow-up survey attempts to capture non-respondents who ignored the initial survey because they thought it was irrelevant to them, but who have valid data that would more accurately reflect the population. Best estimates for user student population are obtained by supplementing the actual student numbers from the initial survey respondents with the expected number of unreported students based on the 1-in-15 follow-up survey.

Scoring: Tally the number for each high school, undergraduate, and graduate student involved in Jefferson Lab-related research or technical activities (including computing) at Jefferson Lab and collaborating institutions and apply the following equation:

$$\text{WSII (Weighted Student Involvement Index)} = 1\text{HSS} + 2\text{UGS} + 4\text{GS}$$

where HSS = High School Students, UGS = Undergraduate Students, and GS = Graduate Students

Performance Level	Adjectival Rating	% of Assigned Points
WSII ≥ 1000 and < 1075	Outstanding	90 to 100
WSII ≥ 925 and < 1000	Excellent	80 to < 90
WSII ≥ 850 and < 925	Good	70 to < 80
WSII ≥ 775 and < 850	Marginal	60 to < 70
WSII < 775	Unsatisfactory	< 60

3.0b Total number of advanced degrees per year based on Jefferson Lab research. [25 points]

Methodology

To estimate the total number of advanced degrees, initially reported and known degrees are supplemented with the expected numbers of unreported degrees based on the number of unreported students and the base of the reported students obtaining such degrees.

Scoring: Tally the number of Master's Degrees and PhD's awarded for research based at Jefferson Lab or involving strong interaction with Jefferson Lab and apply the following equation:

$$\text{CD (Composite Degrees)} = \text{MD} + 3\text{PHD}$$

where MD = Number of awarded Master's degrees and PHD = Number of awarded PhD's

Performance Level	Adjectival Rating	% of Assigned Points
$CD \geq 45$ and < 53	Outstanding	90 to 100
$CD \geq 38$ and < 45	Excellent	80 to < 90
$CD \geq 30$ and < 38	Good	70 to < 80
$CD \geq 23$ and < 30	Marginal	60 to < 70
$CD < 23$	Unsatisfactory	< 60

3.1 Number of advanced degrees per year (represented by a three-year average) granted by minority universities based on Jefferson Lab research. [5 points]

Methodology

Degrees awarded by minority institutions are collected directly. Participation by underrepresented populations are based on the percentages from the initial survey data. Because statistical analysis of small numbers can result in large percentage variations from year to year, a more accurate assessment may be reached by reporting the average over the past three years.

Scoring: See 3.0b scoring scheme, but count degrees granted by minority institutions only (HBCU, MEI, women's colleges) for the past three years, and apply the following equation:

CDM (Composite Degrees Minority) = $(MD_y + MD_{y-1} + MD_{y-2} + 3(PHD_y + PHD_{y-1} + PHD_{y-2}))/3$
 where MD = Number of awarded Master's degrees and PHD = Number of awarded PhD's
 and y is the current year.

Performance Level	Adjectival Rating	% of Assigned Points
$CMD \geq 6$	Outstanding	100
$CMD \geq 4$ and < 6	Excellent	85
$CMD \geq 2$ and < 4	Good	75
$CMD = 1$	Marginal	65
$CMD \approx 0$	Unsatisfactory	55

3.2 Participation of students from groups traditionally underrepresented in physical science and engineering fields. [10 points]

Scoring: Determine the MWSII (Minority Weighted Student Involvement Index) for women or underrepresented minorities.

$$MWSII = 1MHSS + 2MUGS + 4MGS$$

Where: MHSS = Women or Minority High School Students;
 MUGS = Women or Minority Undergraduate Students; and,

MGS = Women or Minority Graduate Students

Students who qualify for more than one category can be counted more than once.

Performance Level	Adjectival Rating	% of Assigned Points**
MWSII \geq 323 and \leq 376*	Outstanding	90 to 100
MWSII \geq 269 and $<$ 323	Excellent	80 to $<$ 90
MWSII \geq 215 and $<$ 269	Good	70 to $<$ 80
MWSII \geq 161 and $<$ 215	Marginal	60 to $<$ 70
MWSII \geq 107 and $<$ 161	Unsatisfactory (Poor)	50 to $<$ 60
MWSII $<$ 107	Unsatisfactory (Failing)	0 to $<$ 50

* Performance level greater than 376 receive 100% of assigned points.

** Percent of assigned points identified in the table can be calculated directly by the following formulas:

% of points = $((\text{MWSII} - \text{lowest number in Performance Level}) / 53) * 10$ + lowest number in % of Assigned Points for MWSII \geq 107

% of points = $(1 - ((106 - \text{MWSII}) / 106))) * 49$ for MWSII $<$ 107

4. Corporate Citizenship

4A. Overview

Objective: As a taxpayer-funded institution, Jefferson Lab should serve the public and the national interest in important areas where it has special competencies which are mission related.

PUBLIC OUTREACH AND IMPROVED SCIENTIFIC LITERACY (35 points).

Objective: Scientific literacy and support are essential for the public to make competent decisions on everyday matters of increasingly complex technical nature. Science and math education are important for today's students if they are to complete high school prepared for college or a worthwhile career. As a workplace where science and math are in the forefront, Jefferson Lab can provide unique educational and motivational opportunities and materials. Public awareness of Jefferson Lab and its DOE-sponsorship is also essential for the future well being of the laboratory and the national science enterprise.

Key Indicator (20 points)

4.0 Public participation (in effective person-hours per year): [Number of student hours + number of public hours + 10 * number of teacher hours] per year, including visits, external public talks, science series, tours, open house, BEAMS, etc.

Secondary Indicators (15 points)

4.1 Public visibility: Number of newspaper and magazine articles, Web-based news systems, and radio and television programs mentioning Jefferson Lab and its science or technology (7 points); percentage of these citations mentioning DOE (3 points). [10 points total]

4.2 "Customer satisfaction" [5 points]

TECHNOLOGY TRANSFER (40 points)

Objective: The objective of the Jefferson Lab technology transfer program is the dissemination of key technologies to industry that are developed as result of Jefferson Lab's primary scientific mission and that are of interest to industry.

Key Indicator (20 points)

4.3 Non-DOE investment in Jefferson Lab initiatives (including direct dollars, manpower costs, and contributions in-kind).

Secondary Indicators (20 points)

4.4 Intellectual property generation as indicated by the annual number of (a) patent applications, (b) patents awarded, (c) license agreements. [10 points]

4.5 Benefit to partners based on the results of a mutually agreed customer survey where the customer indicates level of satisfaction on a 1 (lowest) to 5 (highest) scale. [10 points]

4B. Performance Evaluation Plan

PUBLIC OUTREACH AND IMPROVED SCIENTIFIC LITERACY [35 points]

Introduction:

Jefferson Lab's effect on public awareness and literacy is strongest when people have direct personal contact with laboratory personnel and facilities. The typical minimum time to influence a person's awareness and literacy of things that are outside his/her area of expertise is about an hour, and significant learning can occur in this period. Teachers learn not just for themselves but to pass on information and concepts to their students. Typical teachers contact 25-100 students per year, but the literacy transfer to the students is likely to be lower than it would be if the students participated in the Jefferson Lab experience directly. Consequently, the multiplier 10 for teacher participation is a conservative adjustment for the true outreach/literacy impact.

4.0 Public participation (in effective person-hours per year): [Number of student hours + number of public hours + 10 * number of teacher hours] per year, including visits, external public talks, science series, tours, open house, BEAMS, etc. [20 points]

Scoring: Count or estimate the number (N_i) of participants or attendees in each event (i). Measure the duration (t_i) in hours of the activity, event, or the typical person's involvement. People counted under Scientific Manpower do not count here; high school students doing research do not count.

Calculate the public participation metric (P)

$$P = \sum_i N_i t_i \quad \text{for all events}$$

Peak Performance Goal (PPG):

Good faith efforts will be made to ensure N_i is accurate within 10%; t_i will be measured to the nearest half hour. For FY 2001 Jefferson Lab's Peak Performance Goal (PPG) will be:

-105,000 person-hours broken down as:

- Science and Education - students, teachers, parents - 95,000*
- Public Outreach - 10,000

- Note: If the TRAC program is not funded by DOE, this number will be reduced by 25,000 to 80,000 person-hours overall and 70,000 person-hours for science education. The corresponding ratings will be:

Performance Level	Adjectival Rating	% of Assigned Points†
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
0% to < 50% of PPG	Unsatisfactory (Failing)	0 to < 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

4.1 (a) Public visibility: Number of newspaper and magazine articles, Web-based news systems, and radio and television programs mentioning Jefferson Lab and its science or technology (7 points); (b) percentage of these citations mentioning DOE (3 points). [10 points total]

Scoring:

a) Public Visibility "V" [7 points]

$$V = \sum W_i \quad W_i = C_i + D_i \quad i = \text{each article, radio or TV appearance}$$

Circulation Weighting Factors (C _i)		Distribution Factor (D _i)	
<10,000	1	Local inside SE Virginia	0
10,000-50,000	2	Local outside SE Virginia	+1
50,000-250,000	3	Regional	+1
>250,000	4	National	+2
		International	+3

Regional is defined as Washington DC, Maryland, West Virginia, Tennessee and North Carolina.

The number counted will be ≤ the number occurring, because we would not necessarily be aware of all coverage. If one article is repeated in many publications, add the audience circulation factor and the distribution factors for each. Each article in a series of articles will be counted individually.

Peak Performance Goal (PPG): For FY 2001 Jefferson Lab's Peak Performance Goal will be 400. Scoring will be determined using the values in the following table.

Performance Level	Adjectival Rating	% of Assigned Points†
90% to 100% of PPG	Outstanding	90 to 100
80% to < 90% of PPG	Excellent	80 to < 90
70% to < 80% of PPG	Good	70 to < 80
60% to < 70% of PPG	Marginal	60 to < 70
50% to < 60% of PPG	Unsatisfactory (Poor)	50 to < 60
0% to < 50% of PPG	Unsatisfactory (Failing)	0 to < 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

b) DOE Citation. [3 points]

Percent mentioning DOE: Count the articles, broadcasts, exhibits, interviews and videos (A) initiated by Jefferson Lab which feature the laboratory and the subset (S) of those communications in which the Laboratory mentions DOE. In the case where the Laboratory mentions "DOE" in a proposed article or broadcast and the final version is revised or altered by the media, the Laboratory will receive credit for the article or broadcast since the Laboratory has no control over the final version. Percent = 100 S/A. The score is as follows:

Performance Level	Adjectival Rating	% of Assigned Points [†]
90% to 100%	Outstanding	90 to 100
80% to < 90%	Excellent	80 to < 90
70% to < 80%	Good	70 to < 80
60% to < 70%	Marginal	60 to < 70
50% to < 60%	Unsatisfactory (Poor)	50 to < 60
0% to < 50%	Unsatisfactory (Failing)	0 to < 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

4.2 Customer satisfaction. [5 points]

Scoring: Normalize all feedback from customers (overall ratings) for selected events and activities [to be determined by the laboratory and the DOE Site Office], with average or neutral being 70. Average all available event scores. For public participation events, at least 15% of the total number of participants will be surveyed. This fraction should be representative of a reasonable cross-section of all such public events. For education events, at least 80% of the participants will be surveyed.

Each customer indicates a level of satisfaction on a 1 (lowest) to 5 (highest) scale for each event. After each event, average is calculated, average the event averages resulting in one overall average (A). Normalize the average (A) according to the following formula:

$$N_A = \text{Normalized Average (A)} = [(A - 1) * 15] + 40$$

Performance Level (N _A)	Adjectival Rating	% of Assigned Points [†]
90 to 100	Outstanding	90 to 100
80 to < 90	Excellent	80 to < 90
70 to < 80	Good	70 to < 80
60 to < 70	Marginal	60 to < 70
50 to < 60	Unsatisfactory (Poor)	50 to < 60
40 to < 50	Unsatisfactory (Failing)	0 to < 50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

TECHNOLOGY TRANSFER (40 points)

4.3 Non-DOE investment in Jefferson Lab initiatives (including direct dollars, manpower costs, and contributions in-kind) [20 points]

Scoring:

Performance Level	Adjectival Rating	Assigned Points [†]
Non-DOE Investment 2% to 2.5% of Jefferson Lab ops budget	Outstanding	18 to 20
" " 1.5% to < 2%	Excellent	16 to < 18
" " 1% to < 1.5%	Good	14 to < 16
" " 0.5% to < 1%	Marginal	12 to < 14
" " 0.25% to < 0.5%	Unsatisfactory (Poor)	10 to < 12
" " < 0.25%	Unsatisfactory (Failing)	0 to < 10

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

4.4 Intellectual property generation as indicated by the annual number of [10 points]:

- (a) patent applications
- (b) patents awarded
- (c) license agreements

Scoring:

Performance Level	Adjectival Rating	Assigned Points
Two license granted or one patent award or 5 or more patent applications executed	Outstanding	10
4 patent applications executed	Excellent	8
3 patent applications executed	Good	6
2 patent applications executed	Marginal	4
1 patent application executed	Unsatisfactory (Poor)	2
0 patent application executed	Unsatisfactory (Failing)	0

4.5 Benefit to partners based on the results of a mutually agreed customer survey where the customer indicates level of satisfaction on a 1 (lowest) to 5 (highest) scale. [10 points]

Scoring:

Performance Level (Average Rating on Customer Survey)	Adjectival Rating	% of Assigned Points [†]
4.0 to 5.0	Outstanding	90 to 100
3.5 to < 4.0	Excellent	80 to < 90
3.0 to < 3.5	Good	70 to < 80
2.5 to < 3.0	Marginal	60 to < 70
2.0 to < 2.5	Unsatisfactory (Poor)	50 to < 60
0.0 to < 2.0	Unsatisfactory (Failing)	0 to < 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5. Quality Performance in Environment, Health, and Safety

5.A Overview

Objective: Protection of workers, the public and the environment, adherence to the ALARA concept, and compliance with laws, regulations, statutory requirements, and appropriate national initiatives (recycling, waste reduction, etc.) at lowest reasonable cost.

Key Indicators (55 Points)

5.0a Cost index: $100 * (\$1,000,000 * \text{fatalities} + \$500,000 * \text{permanent transfers or terminations due to occupational illness or injury} + 2,000 * \text{lost workday cases} + 1,000 * \text{days away from work} + 400 * \text{restricted workdays} + 2,000 * \text{number of non-fatal cases without days away from work or restricted workdays}) / \text{total work-hours}$. [35 points]

5.0b Jefferson Lab environmental exceedances per fiscal year. [20 points]

Secondary Indicators (45 points)

5.1 Jefferson Lab lost work day case rate (cases per 100 person years worked). [15 points]

5.2a Number of reportable and recordable exposures to radiation as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

5.2b Number of reportable and recordable exposures to hazardous substances as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

5.3 Solid waste recycled, in tons, divided by (solid waste sent to landfill, in tons + solid waste recycled, in tons). [6 points]

5.4a Pounds of radioactive waste produced by (equipment upgrades + maintenance) divided by pounds of radioactive waste produced by (equipment upgrades + maintenance + unintentional processes). [4 points]

5.4b Pounds of hazardous waste produced divided by pounds of hazardous waste which would have been produced without countermeasures. [4 points]

5.5 Peer review of Emergency Management Program in odd-numbered fiscal years, and of Radiological Control Program in even-numbered fiscal years. [4 points]

5.6 Fraction of high-value facilities rated "Highly Protected Risk." [4 points]

5B. Performance Evaluation Plan

5.0a Cost index: $100 * (\$1,000,000 * \text{fatalities} + \$500,000 * \text{permanent transfers or terminations due to occupational illness or injury} + 2,000 * \text{lost workday cases} + 1,000 * \text{days away from work} + 400 * \text{restricted workdays} + 2,000 * \text{number of non-fatal cases without days away from work or restricted workdays}) / \text{total work-hours}$. [35 points]

Introduction:

Goal: To achieve a performance level which is 50% better than the DOE Lab average.

Qualifiers:

- Comprises all SURA/Jefferson Lab staff
- Includes official travel
- Includes personnel paid under joint salary arrangements

Data collection: EH&S Reporting

Data evaluation: EH&S Reporting

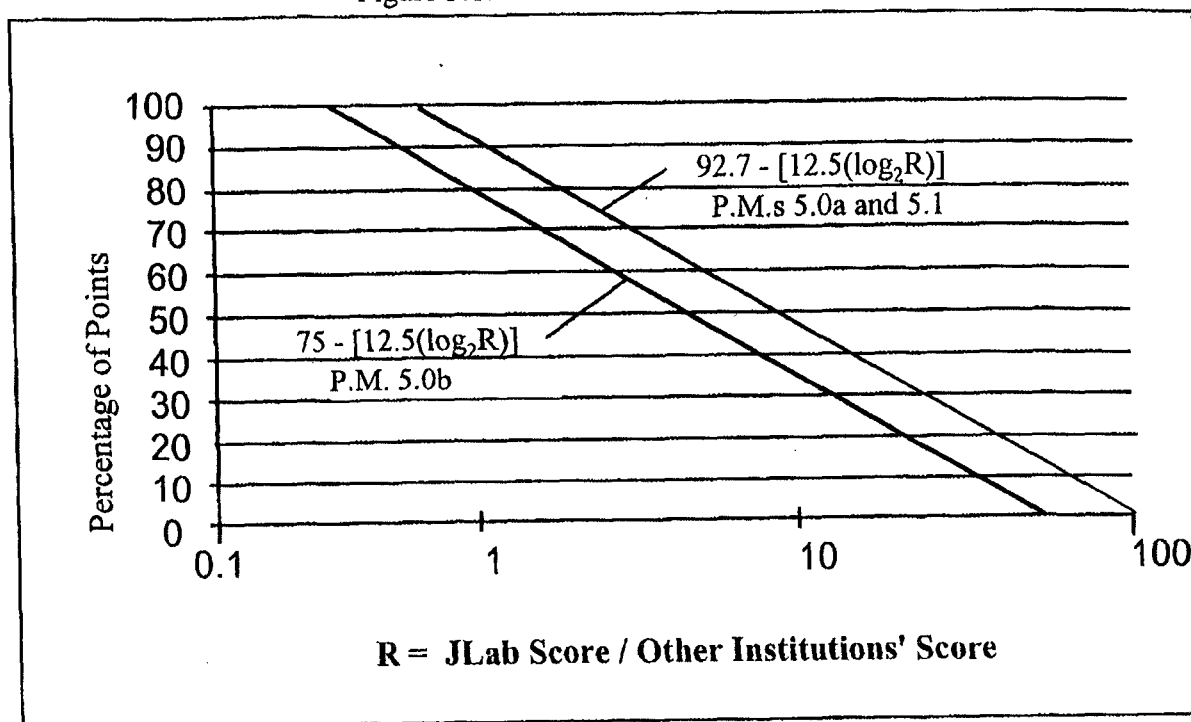
Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based on ratio R of Jefferson Lab's performance during the rating (fiscal) year to the average of DOE Research Contractors for the immediately preceding calendar year, as shown in Table S3 of the publication "DOE Occupational Injury and Property Damage Summary." Note that if $1/R=1.50$, then the Laboratory's goal is met and 100% of the available points are awarded. Other scores are illustrated in the following Table; Figure 5.1 on the following page shows the logarithmic interpolation between performance levels listed in the Table:

Performance Level (R)	Adjectival Rating	% of Assigned Points [92.7 - 12.5(log ₂ R)]
1.162 to 0.667	Outstanding	90 to 100
2.022 to 1.162	Excellent	80 to <90
3.521 to 2.022	Good	70 to <80
6.130 to 3.521	Marginal	60 to <70
10.67 to 6.130	Unsatisfactory (Poor)	50 to <60
170.8 to 10.67	Unsatisfactory (Failing)	0 to <50

Figure 5.1: Points awarded v. the ratio



5.0b Jefferson Lab environmental exceedances per fiscal year. [20 points]

Introduction:

Goal: To achieve a performance level which is 4 times as good as the DOE complex average.

Qualifiers:

- Violation points for purely administrative violations caused by late reporting of routine information to the regulatory agency may be waived (for purposes of this performance measure) by agreement of SURA and the DOE Site Office if SURA had all necessary information to the Site Office at least two working days before it was due
- Violation points for multiple related concurrent violations will be treated as a single violation
- Occurrence Reporting and Processing System (ORPS) thresholds are as defined in order 232.1 dated 9/25/95

Data collection: EH&S Reporting, receiving information from the Site Office

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected. Site Office is the permit holder, and receives information directly on Jefferson Lab environmental exceedances.

Scoring: Jefferson Lab's current performance is evaluated against a permanent baseline of DOE-wide performance for CY 1995. Performance level is based on the ratio R of Jefferson Lab's

performance per FTE to the DOE-wide environmental exceedances performance per FTE, using CY 1995 (as extracted from EH-33 special survey).

Values assigned as follows:

- A ".1" environmental exceedance for a purely administrative violation that is reportable under the ORPS.
- A ".3" environmental exceedance for an environmentally significant violation that results in no long-term (typically less than 30 days) environmental damage, but the violation is ORPS reportable.
- A "1.0" environmental exceedance for a violation that has a significant environmental impact of ≥ 30 days and is ORPS reportable.

The sum of these values is divided by the Jefferson Lab FTEs and compared to the permanent DOE baseline to develop the ratio, R. Note that if $1/R=4$, then the Laboratory's goal is met and 100% of the available points are awarded. Other scores are illustrated in the following Table; Figure 5.1 shows the logarithmic interpolation between performance levels listed in the Table:

Performance Level (R)	Adjectival Rating	% of Assigned Points [75-12.5(log ₂ R)]
.436 to .25	Outstanding	90 to 100
.758 to .436	Excellent	80 to <90
1.32 to .758	Good	70 to <80
2.30 to 1.32	Marginal	60 to <70
4.0 to 2.30	Unsatisfactory (Poor)	50 to <60
64.0 to 4.0	Unsatisfactory (Failing)	0 to <50

5.1 Jefferson Lab lost work day case rate (cases per 100 person years worked). [15 points]

Introduction:

Goal: To achieve a performance level which is 50% better than the DOE Lab average.

Qualifiers:

- Comprises all SURA/Jefferson Lab staff
- Includes official travel
- Includes personnel paid under joint salary arrangements

Data collection: EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected.

Scoring: Based on ratio R of Jefferson Lab's performance during the rating (fiscal) year to the average of DOE Research Contractors for the immediately preceding calendar year, as shown in Table S3 of the publication "DOE Occupational Injury and Property Damage Summary." Note that if $1/R=1.50$, then the Laboratory's goal is met and 100% of the available points are awarded.

Other scores are illustrated in the following Table; Figure 5.1 shows the logarithmic interpolation between performance levels listed in the Table:

Performance Level (R)	Adjectival Rating	% of Assigned Points [92.7 - 12.5(log ₂ R)]
1.162 to 0.667	Outstanding	90 to 100
2.022 to 1.162	Excellent	80 to <90
3.521 to 2.022	Good	70 to <80
6.130 to 3.521	Marginal	60 to <70
10.67 to 6.130	Unsatisfactory (Poor)	50 to <60
170.8 to 10.67	Unsatisfactory (Failing)	0 to <50

5.2a Number of reportable and recordable exposures to radiation as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

Introduction:

Goal: To have a satisfactory ALARA program, with no exposures > 80% of the ORPS off-normal threshold

Qualifiers:

- Includes everyone on site (including adjacent space leased by SURA and those personnel covered by the Jefferson Lab radiation dosimetry program)
- Only the worst exposure is counted in an event involving radiation exposure
- Excludes exposures pre-approved in accordance with the Rad Con Manual
- ORPS thresholds are as defined in order 232.1, dated 9/25/95

Data collection: Radiological Control reports the information to EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected

Scoring: Based directly on exposures and program evaluation. Values assigned as follows:

- 0.00 for ALARA program rated better than satisfactory in the most recent internal evaluation (performed by the Radiological Control Manager during the preceding 12 months)
- 0.01 for ALARA program rated satisfactory in the most recent internal evaluation
- 0.1 for ALARA program rated less than adequate in the most recent internal evaluation
- 0.5 for an event in which the worst whole body exposure is above 80% but below 100% of the ORPS off-normal threshold
- 1.0 for an event in which the worst whole body exposure is above the ORPS off-normal threshold but below the unusual occurrence threshold
- 5.0 for an event in which the worst whole body exposure is above the ORPS unusual occurrence threshold

Performance Level is given by the sum (S) of these values.

Performance Level (S)	Adjectival Rating	% of Assigned Points [†]
< 0.1 to 0.01	Outstanding	90 to 100
0.5 to 0.1	Excellent	80 to <90
1.0 to > 0.5	Good	70 to <80
5.0 to > 1.0	Marginal	60 to <70
10.0 to > 5.0	Unsatisfactory (Poor)	50 to <60
> 10.0	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels >10.0 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.2b Number of reportable and recordable exposures to hazardous substances as off-normal occurrences, plus 5 times this number for unusual occurrences. [4 points]

Introduction:

Goal: To have no exposures above an OSHA action level.

Qualifiers:

- Includes everyone on site (including adjacent space leased by SURA)
- ORPS thresholds are as defined in order 232.1, dated 9/25/95
- No more than three exposures are counted in a single incident

Data collection: Industrial Hygiene Staff report the information to EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is presently collected

Scoring: Based on exposures. Values assigned as follows:

- 0.1 for an exposure above an OSHA action level, but less than the ORPS off-normal threshold (2 times the OSHA permissible exposure level)
- 1.0 for an exposure above the ORPS off-normal threshold, but below the unusual occurrence threshold
- 5.0 for an exposure above the unusual occurrence threshold (5 times the OSHA permissible exposure level)

Performance Level is given by the sum (S) of these values

Performance Level (S)	Adjectival Rating	% of Assigned Points [†]
0.5 to 0.0	Outstanding	90 to 100
1.0 to > 0.5	Excellent	80 to <90
4 to > 1.0	Good	70 to <80
16 to > 4	Marginal	60 to <70
35 to > 16	Unsatisfactory (Poor)	50 to <60
> 35	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels >35 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.3 Solid waste recycled, in tons, divided by (solid waste sent to landfill, in tons + solid waste recycled, in tons). [6 points]

Introduction:

Goal: To exceed the FY94 baseline recycling ratio (0.021) by 44%

Qualifiers:

- Includes solid waste in dumpsters on the Jefferson Lab site
- Includes solid waste picked up for recycling from the Jefferson Lab site
- Weights are measured by the subcontractors as part of the subcontract requirements
- Additional waste streams may be added if they are found to be significant

Data collection: The solid waste and recycling subcontractors report the information to Plant Engineering, which consolidates the data and forwards it to EH&S Reporting

Data evaluation: EH&S Reporting

Performance evaluation: EH&S Reporting

Performance measurement validation: Relevant information is presently collected

Scoring: Based directly on current year's recycling ratio.

Performance Level (Ratio)	Adjectival Rating	% of Assigned Points†
0.026 to \leq 0.030	Outstanding	90 to 100
0.020 to $<$ 0.026	Excellent	80 to $<$ 90
0.010 to $<$ 0.020	Good	70 to $<$ 80
0.005 to $<$ 0.010	Marginal	60 to $<$ 70
0.002 to $<$ 0.005	Unsatisfactory (Poor)	50 to $<$ 60
$<$ 0.002	Unsatisfactory (Failing)	0 to $<$ 50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed except performance levels $<$ 0.002 are scored by logarithmic extrapolation from Marginal and Unsatisfactory (Poor).

5.4a Pounds of radioactive waste produced by (equipment upgrades + maintenance) divided by pounds of radioactive waste produced by (equipment upgrades + maintenance + unintentional processes). [4 points]

Introduction:

Goal: To limit generation of radioactive waste by unintentional processes to 10% of total radioactive waste generated

Qualifiers:

- Equipment upgrades includes the removal of equipment which is no longer in use
- Maintenance includes repairs necessitated by spontaneous failures
- Unintentional processes exclude radioactive waste caused by spontaneous failures
- Only accelerator and experimental equipment components are included

- Unintentional processes include thermal damage caused by the beam and mechanical damage, plus other processes only if the information is available to the Radiological Control Group without investigation by that group
- If no radioactive waste is generated in a year, a rating of 95% will be assigned

Data collection: The Radiological Control Group collects this information and forwards it to EH&S Reporting

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: Relevant information is readily collectible

Scoring: Based directly on ratio

Performance Level (Ratio)	Adjectival Rating	% of Assigned Points [†]
0.80 to < 0.90	Outstanding	90 to 100
0.70 to < 0.80	Excellent	80 to <90
0.60 to < 0.70	Good	70 to <80
0.50 to < 0.60	Marginal	60 to <70
0.40 to < 0.50	Unsatisfactory (Poor)	50 to <60
0.00 to < 0.40	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5.4b Pounds of hazardous waste produced divided by pounds of hazardous waste which would have been produced without countermeasures. [4 points]

Introduction:

Goal: To reduce hazardous waste generation by a factor of 4 relative to the amount which would be produced without countermeasures

Qualifiers: None

Data collection: Pounds of hazardous waste is determined by the Hazardous Waste Coordinator. Pounds of hazardous waste which would have been produced without countermeasures is determined jointly by the hazardous waste coordinator and the hazardous waste producer.

Data evaluation: EH&S Reporting

Performance measure custodian: EH&S Reporting

Performance measurement validation: The criteria used for determining pounds of hazardous waste which would have been produced without countermeasures are reviewed by EH&S Reporting to ensure validity

Scoring: Based directly on ratio

Performance Level (Ratio)	Adjectival Rating	% of Assigned Points [†]
0.4 to > 0.25	Outstanding	90 to 100
0.5 to > 0.4	Excellent	80 to <90
0.6 to > 0.5	Good	70 to <80
0.7 to > 0.6	Marginal	60 to <70
0.8 to > 0.7	Unsatisfactory (Poor)	50 to <60
1.0 to > 0.8	Unsatisfactory (Failing)	0 to <50

[†] In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5.5 Peer review of the Emergency Management Program in odd-numbered fiscal years, and of the Radiological Control Program in even-numbered fiscal years. [4 points]

Introduction:

Goal: Program (including planning and response services and facilities) is appropriate for a low-hazard, non-nuclear accelerator facility

Qualifiers:

- Factors considered by Emergency Management Review Committee:
 - Gaps or redundancies relative to services available in surrounding communities
 - Appropriate balance between costs and potential benefits
 - Efficient use of resources applied
 - Related Appendix E requirements in effect on November 1, 1996, including those replaced by this performance measure, provided to Review Committee for their information and use
- Factors considered by Radiological Control Review Committee:
 - Management and control of exposures to workers and the public
 - Control of radiological damage to the environment
 - Achievement of exposures which are as low as reasonable, considering cost
 - Compliance with laws, regulations, and other Necessary Standards
 - Results of DOELAP review when conducted since the last Radiological Control Program review
 - Efficient use of resources applied
 - Related Appendix E requirements in effect on November 1, 1996, including those replaced by this performance measure, provided to Review Committee for their information and use

Data collection: The Emergency Management Manager and Radiological Control Manager, respectively, provide appropriate data to the Review Committee.

Data evaluation:

- Performed by the Review Committee
- Duration of review one to two days
- Emergency Management Review Committee:
 - Membership:
 - Emergency management professional from the surrounding community

- Emergency management professional from a low-hazard DOE laboratory
- Line manager from Thomas Jefferson National Accelerator Facility
- Line manager from an industrial organization in surrounding community
- Observer from DOE
- Members and chairperson selected by Emergency Management Manager, subject to DOE Site Office concurrence
- Radiological Control Review Committee:
 - Membership:
 - Two radiological professionals from DOE laboratories
 - Line manager, active or recently retired, from an organization with substantial accelerator experience (excluding Jefferson Lab)
 - Members selected by Radiological Control Manager, subject to DOE Site Office concurrence
 - Professionals from DOE laboratories are expected to be familiar with applicable laws, regulations, and other Necessary Standards
- The Review Committee is asked to assign a percentage rating to the extent to which the goal, as qualified above, is achieved
- The Review Committee is asked to point out noteworthy strengths and also opportunities for improvement in effectiveness or efficiency

Performance measure custodian: EH&S Reporting

Performance measurement validation: The independence of the majority of the members assures the validity of the results

Scoring: Based directly on percentage rating by Review Committee (The non-linear relationship to the percentage of assigned points reflects the subjectivity necessarily associated with a small review committee.)

Performance Level (Score, %)	Adjectival Rating	% of Assigned Points†
80 to > 100	Outstanding	90 to 100
70 to < 80	Excellent	80 to <90
60 to < 70	Good	70 to <80
50 to < 60	Marginal	60 to <70
40 to < 50	Unsatisfactory (Poor)	50 to <60
0 to < 40	Unsatisfactory (Failing)	0 to <50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

5.6 Fraction of high-value facilities rated "Highly Protected Risk." [4 points]

Introduction:

Goal: All high-value facilities meet insurance carrier criteria for Highly Protected Risk designation

Qualifiers:

- A facility is a separate building and its contents
- A facility is high-value if it has a maximum credible fire loss of \$1 million or more
- A facility is high-value if it is mission essential
- A facility is mission essential if its maximum credible fire loss would result in more than a three month programmatic delay

Data collection: Facilities which are high-value are determined by the Plant Engineering Director, with DOE Site Office concurrence. Information required to classify the level of fire protection is collected by representatives from the technical services group of SURA's fire and property insurance carrier.

Data evaluation: Performed by representatives from the technical services group of SURA's fire and property insurance carrier

Performance measure custodian: EH&S Reporting

Performance measurement validation: Site Office concurrence ensures that the high-value facilities are correctly identified. The fact that the same insurance carrier classifies the fire protection risk and provides SURA's fire coverage assures accuracy in the classification.

Scoring: Based directly on fraction of high-value facilities meeting criteria

Performance Level (Score)	Adjectival Rating	% of Assigned Points†
0.95 to 1.00	Outstanding	90 to 100
0.90 to < 0.95	Excellent	80 to <90
0.85 to < 0.90	Good	70 to <80
0.80 to < 0.85	Marginal	60 to <70
0.75 to < 0.80	Unsatisfactory (Poor)	50 to <60
0.00 to < 0.75	Unsatisfactory (Failing)	0 to <50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

6. Quality of Business and Administrative Practices

6A. Overview

Objective: Maintaining effective and efficient business and administrative practices at Jefferson Lab.

Key Indicator (70 points)

6.0 Peer Review

General Charge to Peer Review Panel: With DOE concurrence, SURA will issue the charge to the Panel. Generally, the charge will be to assess the overall strengths and weaknesses of the Laboratory's business and administrative infrastructure, with a special focus each year on one of these Secondary Indicator Areas below. More detailed guidance will be developed based on special circumstances at the time of the review. To achieve this objective, review each major overhead/indirect cost area. Areas to be reviewed include:

- Self assessment
- Contractual requirements and performance standards
- Annual objectives
- Internal audits
- External reviews
- Benchmarking efforts

The Panel will have access to Secondary Indicators as input to its review.

Frequency and Duration: Annually, three days, with final report due 30 days from last day of review

Panel composition: A five to six member panel, selected by mutual agreement of SURA and DOE, and consisting of CAO equivalents from private industry, national laboratories and the scientific community (including one from the Jefferson Lab user community).

Secondary Indicators (30 points)

FACILITIES MANAGEMENT (6 points)

Objective: To manage non-capital and GPP construction projects to maximize the expenditure of funds on actual construction and complete these projects on time and within budget. Real properties usage is optimized. Facilities are adequately maintained and operated to minimize life cycle costs.

6.1 Percentage of overrun on all projects greater than \$100K (contracted price). [1 point]

6.2 Variance of scheduled completion time for projects greater than \$100K and of annual milestones of multi-year projects greater than \$100K. [1 point]

6.3 Percentage of scheduled preventive maintenance tasks completed by their scheduled due dates. [2 points]

6.4 Average percentage of open corrective maintenance tasks (not including those designated Discretionary) that have been open for greater than 3 months. [2 points]

PROPERTY MANAGEMENT AND PROTECTION (5 points)

Objective: Establish, implement and maintain effective management practices for the control, utilization and disposal of personal property, promote cost economies and efficiencies that result in improved processes, customer satisfaction and the elimination of waste. Such practices cross programmatic lines and contribute to the mission accomplishment of DOE and/or the Laboratory. The Laboratory will, in addition, ensure effective protection of proprietary information, personnel, property and the general public in an effective, cost efficient, risk based and graded manner.

6.5 Percentage of value of property not located during the inventory cycle for each of the inventories conducted: capital equipment (biannual - odd fiscal years only), sensitive items (annual), and stores (annual). [4 points]

6.6 Reduction in the inventory of the Technical Stockroom. [1 point]

FINANCIAL MANAGEMENT (6 points)

Objective: Assure effective planning, execution, and monitoring of budgets. Assure effective cash and debt management. Assure cost accounting system is in compliance with Cost Accounting Standards and that Disclosure Statement is current, complete, accurate, and reflective of the accounting system; assure financial practices are in conformance with the approved Disclosure Statement. Assure indirect cost activities are well managed. Assure SURA's internal audit control program maintains accuracy of the financial data, safeguards DOE assets, and prevents fraud, waste, and abuse.

6.7 Number of Cost Accounting Standards violations resulting from nonconformance with the approved Disclosure Statement, unless following DOE directives. [1 point]

6.8 Dollar percentage of invoices presented for payment deemed unallowable by the Contracting Officer as highlighted in the annual transaction testing audit and any IG audits that take place during the year. [1 point]

6.9 Percentage of vendor invoices paid with discounts lost. [1 point]

6.10 Percentage of annual actual cost variance from budget for each overhead pool. [1 point]

6.11 Number of occurrences that the monthly Cost Management Report (533M) had to be resubmitted to the DOE Contracting Officer to correct erroneous data reported by the Lab. [1 point]

6.12 Number of travel expense reports taken from a 10% random sample of Department audited expense reports that contained an error exceeding \$100 that was not detected at the time the expense report was originally audited by Business Services. [1 point]

PROCUREMENT (6 points)

Objective: Assure procurement functions are carried out so as to be cost effective, meet contractual requirements, satisfy customers' needs, and meet socioeconomic goals.

6.13 Average procurement cycle time to award a small purchase order above the micro-purchase threshold (all actions >\$2,500 <\$100,000). [3 points]

6.14 Percent of total available purchasing dollars awarded to: small business concerns; small women-owned business concerns; and small disadvantaged business concerns. [3 points]

HUMAN RESOURCES AND SERVICES (6 points)

Objective: Attract and retain a diverse workforce capable of successfully executing Jefferson Lab's mission. Provide a workplace environment conducive to employee well-being and growth. Maintain innovative compensation practices aligned with the market place to attract and retain a diverse, well-trained workforce. Maintain innovative and cost-effective health care programs aligned with the commercial market place for similarly situated workforce programs. Provide a comprehensive program of library, publications, and records management services in support of Lab activities.

6.15a Percent of action oriented diversity commitments, as established in the Affirmative Action Plan (AAP) completed during the fiscal year. [1 point]

6.15b Representation of protected classes (PC) within each EEO-1 category at the end of the fiscal year compared to the beginning of the fiscal year (adjusted for voluntary separations). [1 point]

6.16 Sustainable EEOC charges. [1 point]

6.17 Achieve compensation positions aligned with market practices to reflect the Lab's mid-market compensation philosophy. [1 point]

6.18 Percent of three-year rolling average of annual increases in premium cost relative to market. [1 point]

6.19 Percent of current year's papers written by JLab staff or Users placed on-line. [1 point]

CYBER SECURITY (1 point)

Objective: Assure JLab computer systems are not compromised or used in attacks on other Internet locations.

6.20 Number of times JLab computer systems were compromised or were used to attack other systems. [1 point]

6B. Performance Evaluation Plan

6.0 Peer Review [70 Points]

Introduction:

The "Key Indicator" for this performance objective will be based on a "peer review" of the Laboratory's administrative system. Associated with the peer review are a set of secondary indicators (performance measures 6.1 - 6.20 listed below) that will be used to monitor the Laboratory's administrative performance in a more detailed way and to extend the validity of the peer review.

Scoring: The Peer Review Panel will assign an adjectival rating to the performance of the laboratory in producing quality business and administrative practices, and an associated percentage of the Key Indicator points within the ranges associated with that rating, according to the following Table:

Adjectival Rating	% of Assigned Points
Outstanding	90 to 100
Excellent	80 to < 90
Good	70 to < 80
Marginal	60 to < 70
Unsatisfactory (Poor)	50 to < 60
Unsatisfactory (Failing)	0 to < 50

FACILITIES MANAGEMENT (6 points)

6.1 Percentage of overrun on all projects greater than \$100K (contracted price) [1 point]

Introduction:

Maintain level of construction control to limit change orders and cost overruns to only those which bring added value to the project or are appropriate to produce the desired end product.

Performance level will be calculated from the initial bid (contracted) amounts compared to the final contract amounts considering all applicable funding increases for all appropriate contracts closed out during the rating period. Increases considered not applicable are those whose root cause is:

- Post-design programmatic change by user (physical or schedule)
- New technology deemed a value-added inclusion (post-award)
- Value engineering proposals accepted (both additive and deductive)

Value determined will be expressed as a percent overrun.

Performance Level = $[(\text{Applicable Final Contract Cost} / \text{Initial Contract Amount}) - 1] * 100$

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
< 8%	Outstanding	100
> 8% to < 12%	Excellent	85
> 12% to < 18%	Good	75
> 18% to < 25%	Marginal	60
> 25% to < 35%	Unsatisfactory (Poor)	50
> 35%	Unsatisfactory (Failing)	0

6.2 Variance of scheduled completion time for projects greater than \$100K and of annual milestones of multi-year projects greater than \$100K. [1 point]

Introduction:

Calculation of performance toward this goal will be made by comparing the actual number of days to completion of an identified project (or to a designated milestone) to the number specified contractually. This will be expressed as a coefficient of actual divided by contracted. Additional time attributed to the following categories will not be included for the purpose of this metric:

- Acts of God (as contractually accepted)
- Labor disputes/strikes
- Documented material unavailability (contractually accepted)
- User desired post-award change orders for which additional time is appropriate

Scoring: For purposes of this report, "completion" shall be when the project is physically complete; turned over to user or beneficial occupancy taken.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
< 1.10	Outstanding	100
> 1.10 to < 1.25	Excellent	85
> 1.25 to < 1.30	Good	75
> 1.30 to < 1.40	Marginal	60
> 1.40 to < 1.50	Unsatisfactory (Poor)	50
> 1.50	Unsatisfactory (Failing)	0

6.3 Percentage of scheduled preventive maintenance tasks completed by their scheduled due dates. [2 points]

Scoring:

$$\text{Performance Level} = \frac{\text{PMs completed as scheduled}}{\text{PMs scheduled}}$$

where PM is defined to be Total Preventive Maintenance actions scheduled per unit time. Activities considered for FY2001 will include mechanical equipment, electrical distribution system, and fire detection/suppression system (water based) subcontracted maintenance. Tasks

that are prohibited by operations and so documented will be rescheduled. The new completion date will be used for performance level calculation.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
≥ 94%	Outstanding	100
≥ 90% to < 94%	Excellent	90
≥ 84% to < 90%	Good	75
≥ 79% to < 84%	Marginal	60
≥ 75% to < 79%	Unsatisfactory (Poor)	50
< 75%	Unsatisfactory (Failing)	0

6.4 Average percentage of open corrective maintenance tasks (not including those designated Discretionary) that have been open for greater than 3 months. [2 points]

Scoring: Identified maintenance needs will be categorized as follows:

- Corrective Maintenance (CM) - Critical tasks which could lead to greater problems or costs within a 3-6 month period if corrective maintenance is not accomplished in a timely manner.
- Discretionary Corrective Maintenance (DCM) - Identified problems that should be accomplished for system integrity, but do not fit the criticality for CM designation.

The performance level will be compiled on a quarterly basis from input provided by the maintenance subcontractors as addressed in Indicator 6.3. Only data relative to CM tasks will be used in the calculations, and the ratio will be obtained by:

$$\text{Performance Level} = \frac{\text{CMs open} > 3 \text{ months}}{\text{CMs open}}$$

The comments of Indicator 6.3 relative to operations interference apply.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
< 10%	Outstanding	100
> 10% to < 18%	Excellent	85
> 18% to < 28%	Good	75
> 28% to < 35%	Marginal	60
> 35% to < 40%	Unsatisfactory (Poor)	50
> 40%	Unsatisfactory (Failing)	0

PROPERTY MANAGEMENT AND PROTECTION (5 points)

6.5 Percentage of value of property not located during the inventory cycle for each of the inventories conducted: capital equipment (biannual - odd fiscal years only), sensitive items (annual), and stores (annual). [4 points]

Scoring:

Performance Level = [(Value of property not located during each of the inventories / Corresponding value of property for each class inventoried) * 100]

Submeasure	Frequency	Odd Years	Even Years
6.5a Capital Equipment	biannual	2 points	0 pts. (not conducted)
6.5b Sensitive	annual	2 points	4 points
6.5c Stores	annual	1 point	1 point

Performance Level	Adjectival Rating	% of Maximum Assigned Points
< 1%	Outstanding	100
≥ 1% to < 1.5%	Excellent	85
≥ 1.5% to < 2%	Good	70
≥ 2.0% to < 3%	Marginal	55
≥ 3.0% to < 4.0%	Unsatisfactory (Poor)	40
≥ 4.0%	Unsatisfactory (Failing)	0

6.6 Stores Inventory turnover rate. [1 point]¹

Reduction in the inventory of the Technical Stockroom by an amount to be negotiated with the DOE Site Office.

Scoring

Performance Level = Percentage of Technical Stockroom inventory reduction measured by the total dollar stockroom inventory transferred to Property Management divided by the dollar value of the JLab Technical Stockroom shelf inventory as of the negotiated date.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
> TBD %	Outstanding	100
≥ TBD % to < TBD %	Excellent	85
≥ TBD % to < TBD %	Good	70
≥ TBD % to < TBD %	Marginal	60
≥ TBD % to < TBD %	Unsatisfactory (Poor)	50
≥ TBD %	Unsatisfactory (Failing)	0

¹ Date and amount/performance level to be negotiated with the DOE Site Office by January 31, 2001.

FINANCIAL MANAGEMENT (6 points)

6.7 Number of Cost Accounting Standards violations resulting from nonconformance with the approved Disclosure Statement, unless following DOE directives. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
no violations	Outstanding	100
one violation	Excellent	85
two violations	Good	70
three violations	Marginal	55
four violations	Unsatisfactory (Poor)	40
five violations	Unsatisfactory (Failing)	0

6.8 Dollar percentage of invoices presented for payment deemed unallowable by the Contracting Officer as highlighted in the annual transaction testing audit and any IG audits that take place during the year. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% to 1%	Outstanding	100
< 1% to 2%	Excellent	85
< 2% to 3%	Good	70
< 3% to 4%	Marginal	55
< 4% to 5%	Unsatisfactory (Poor)	40
< 5%	Unsatisfactory (Failing)	0

6.9 Percentage of vendor invoices paid with discounts lost. [1 point]

Scoring: The measure of percentage of invoices available for discount and not successfully taken as a percentage of invoices processed with discounts plus invoices with discounts lost are:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% to 1%	Outstanding	100
< 1% to 2%	Excellent	85
< 2% to 3%	Good	70
< 3% to 4%	Marginal	55
< 4% to 5%	Unsatisfactory (Poor)	40
< 5%	Unsatisfactory (Failing)	0

6.10 Percentage of annual actual cost variance from budget for each overhead pool. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% to 3.0% variance	Outstanding	100
3.1% to 6.0% variance	Excellent	85
6.1% to 9.0% variance	Good	70
9.1% to 12.0% variance	Marginal	55
12.1% to 15.0% variance	Unsatisfactory (Poor)	40
> 15% variance	Unsatisfactory (Failing)	0

6.11 Number of occurrences that the monthly Cost Management Report (533M) had to be resubmitted to the DOE Contracting Officer to correct erroneous data reported by the Lab. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0 occurrences	Outstanding	100
1 occurrence	Excellent	85
2-3 occurrences	Good	70
4-5 occurrences	Marginal	55
6-7 occurrences	Unsatisfactory (Poor)	40
> 8 occurrences	Unsatisfactory (Failing)	0

6.12 Number of travel expense reports taken from a 10% random sample of Department audited expense reports that contained an error exceeding \$100 that was not detected at the time the expense report was originally audited by Business Services. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0% - 2.0%	Outstanding	100
2.1% - 5.0%	Excellent	85
5.1% - 10%	Good	70
10.1% - 15%	Marginal	55
15.1% - 20%	Unsatisfactory (Poor)	40
> 20%	Unsatisfactory (Failing)	0

PROCUREMENT (6 points)

6.13 Average procurement cycle time to award a small purchase order above the micro-purchase threshold (all actions >\$2,500 <\$100,000). [3 points]

Introduction:

Procurement cycle time is based on the date the purchase requisition is received in Procurement until the action is awarded, but does not include the time required to establish new vendors or time required by Jefferson Lab requisitioners to correct deficient requisition documentation.

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
Less than 14 Calendar Days	Outstanding	100
> 14 to < 21 Calendar Days	Excellent	85
> 21 to < 35 Calendar Days	Good	70
> 35 to < 42 Calendar Days	Marginal	55
> 42 to < 49 Calendar Days	Unsatisfactory (Poor)	40
> 49 Calendar Days	Unsatisfactory (Failing)	0

6.14 Percent of total available purchasing dollars awarded to: small business concerns; small women-owned business concerns; and small disadvantaged business concerns. [3 points]

Introduction:

- Total estimated dollar value of all planned subcontracting (to Large and Small Business concerns): \$58,600,000.
- "Total Available Purchasing Dollars" excludes: (i) awards to Government sources (including awards on GSA price schedules to large business firms); (ii) awards to foreign sources; and (iii) credit card purchases.
- Awards to women-owned business concerns, and small disadvantaged business concerns will be counted for every Submeasure that is applicable.

FY01 Peak Performance Goals (PPG):

- Submeasure 6.14a: Award 46% of total available purchasing dollars (est. \$26,956,000) to small business concerns. (1 point)
- Submeasure 6.14b: Award 6% of available purchasing dollars (est. \$3,516,000) to women owned business concerns. (1 point)
- Submeasure 6.14c: Award 7% of available purchasing dollars (est. \$4,102,000) to small disadvantaged business concerns. (1 point)

Scoring: In each submeasure, scoring relative to peak performance goals will be:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
100%	Outstanding	100
90% to < 100%	Excellent	85
70% to < 90%	Good	70
60% to < 70%	Marginal	55
50% to < 60%	Unsatisfactory (Poor)	40
< 50%	Unsatisfactory (Failing)	0

HUMAN RESOURCES AND SERVICES (6 points)

6.15a. Percent of action oriented diversity commitments, as established in the Affirmative Action Plan (AAP), Section VII-C, completed during the fiscal year. [1 point]

Scoring: AAP Assessment Factor = $\frac{\text{\# of action oriented diversity commitments}}{\text{Total \# of action oriented diversity commitments}}$

Performance Levels	Adjectival Rating	% of Maximum Assigned Points
Achieve \geq 90% of diversity commitments	Outstanding	100
Achieve 80% to < 90% of diversity commitments	Excellent	85
Achieve 70% to < 80% of diversity commitments	Good	70
Achieve 55% to < 70% of diversity commitments	Marginal	55
Achieve less 55% of diversity commitments	Unsatisfactory	40

6.15b. Representation of protected classes (PC) within each EEO-1 category at the end of the fiscal year compared to the beginning of the fiscal year (adjusted for voluntary separations). [1 point]

Scoring:

PC Assessment Factor = $\frac{\% \text{ of PC to total workforce at the end of FY within each EEO-1 category}}{\% \text{ of PC to total workforce at the beginning of FY within each EEO-1 category}}$

where:

Total Workforce = Total number of regular and term employees
(excludes casuals, temps, and students)

EEO-1 Category = Occupational job categories as defined by EEOC (N=10)

Protected Classes (PC) = Women and minorities as defined by EEOC
(N = 20): 2PC * 10 EEO-1 categories

Note: EEO-1 categories where Utilization percentages meet or exceed Availability percentages are determined to be fully in compliance with this metric.

Performance Levels	Adjectival Rating	% of Maximum Assigned Points
Maintain beginning PC factor in 100% of protected classes	Outstanding	100
Maintain 85% to < 100% of protected classes	Excellent	85
Maintain 70% to < 85% of protected classes	Good	70
Maintain 50% to < 70% of protected classes	Marginal	55
< 50% of protected classes	Unsatisfactory	40

6.16 Sustainable EEOC charges. [1 point]

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
0 charges	Outstanding	100
1 charge	Good	80
> 1 charge	Unsatisfactory	0

6.17 Achieve compensation positions aligned with market practices to reflect the Lab's mid-market compensation philosophy. [1 point]

Scoring: Compensation Factor = $\frac{\sum (\text{weighted average salary within each classification})}{\sum (\text{weighted salary range midpoint* within each classification})}$

*Assumes salary range midpoints reflect mid-market position

Performance Level	Adjectival Rating	% of Maximum Assigned Points
Average salaries within +3.0% of market average	Outstanding	100
Average salaries within +3.1% to +5.0% of market average	Excellent	80
Average salaries within +5.1% to +7.0% of market average	Good	70
Average salaries within +7.1% to +10.0% of market average	Marginal	60
Average salaries greater than +10.0% of market average	Unsatisfactory	50

6.18 Percent of three-year rolling average of annual increases in premium cost relative to market. [1 point]

Performance Level	Adjectival Rating	% of Maximum Assigned Points
5% or more below market data	Outstanding	100
Up to 4.9% below market or no more than 2.0% above market	Excellent	80
2.1% to 5.0% above market	Good	70
5.1% to 8.0% above market	Marginal	60
8.1% to 12.0% above market	Unsatisfactory (Poor)	50
12.1% or more above market	Unsatisfactory (Failing)	0

6.19 Science and Technical Information: Percent of current year's papers written by JLab staff or Users placed online. [1 point]

"Papers" is defined as any paper that is published in a journal or proceedings, or presented at a conference, or any technical note written by researchers that are employees of Jefferson Lab. "User Papers" is defined as any journal-published paper, written and reported to JLab by a User, using research results from Jefferson Lab.

Scoring: Performance on the Science and Technical Information program is measured by the percentage of papers placed online during the fiscal year.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
97-100% of papers placed online	Outstanding	100
94-96% of papers placed online	Excellent	80
91-93% of papers placed online	Good	70
88-90% of papers placed online	Marginal	60
85-87% of papers placed online	Unsatisfactory (Poor)	50
82-84% of papers placed online	Unsatisfactory (Failing)	0

CYBER SECURITY (1 point)

6.20 Number of times JLab computer systems were compromised or were used to attack other systems. [1 point]

Methodology: Potential Cyber Security Incidents (CSI) considered in this metric include system level (root) compromises on Computer Center and Accelerator Controls managed systems, as well as situations where nodes in the jlab.org domain are used to carry out cyber attacks on other locations on the Internet. Computer Center and Accelerator Controls staff will track incidents and report on them at the end of the fiscal year.

Scoring: $CSI = RC + .5(CA)$ where

RC = the number of incidents of system level (root) compromises on Computer Center or Accelerator Controls managed systems per year

CA = the number of incidents in which a node in the jlab.org domain is used to carry out a cyber attack on other locations on the Internet

Performance Levels	Adjectival Rating	% of Maximum Assigned Points
$CSI \leq 1$	Outstanding	100
$CSI > 1$ and ≤ 3	Excellent	85
$CSI > 3$ and ≤ 6	Good	70
$CSI > 6$ and ≤ 9	Marginal	55
$CSI > 9$ and ≤ 12	Unsatisfactory (Poor)	40
$CSI > 12$	Unsatisfactory (Failing)	0

7.0 Responsible Institutional Management

7A. Overview

Objective: To manage and operate Jefferson Lab in accordance with generally accepted quality management principles so as to achieve its mission goals in a cost effective manner while satisfying its customers, and providing a culture which builds trust and facilitates continuous improvement in all areas of the institution.

Key Indicator (100 points)

7.0 Peer Review

General Charge to Peer Review Panel: With DOE concurrence, SURA will issue the charge to the Panel. Generally, the charge will be to assess overall institutional management of Jefferson Lab with emphasis on the three criteria of strategic planning, managerial effectiveness, and organizational culture. More detailed guidance will be developed based on special circumstances at the time of the review. All other metrics provided for in this Appendix are made available to this committee as well as the results of external and internal reviews during the performance period.

Frequency and Duration: Two days every 2 years, divided between presentations, site tours/inspections, and report drafting. The final report is due 30 days from conclusion of review.

Panel composition: A panel selected by mutual agreement of SURA and DOE, and consisting of:

- 1 DOE Lab Director
- 1 CAO
- 1 Industrial Chief Scientist
- 1 University Provost or President with Scientific/Engineering Credentials
- 1 International Lab Director
- Chairs of the Outstanding Science and Technology Peer Review and of the Quality of Business and Administrative Practices Peer Review.

Prior to the selection of the panel members, the composition of the panel may be adjusted, by mutual agreement of SURA and DOE, to match the programs and activities of the Laboratory and the special circumstances to be addressed by the review.

Note: This review was held in FY96 and again in FY98. The score achieved in FY96 was carried forward to FY97 and included in the FY97 performance evaluation calculation. The score achieved in FY98 was carried forward to FY99 and included in the FY99 performance evaluation calculation. The score received in the FY00 review will be carried forward and included in the FY01 performance evaluation calculation.

7B. Performance Evaluation Plan

Peer Review Criteria:

Strategic Planning: (40%)

- Responsiveness to national scientific and technical priorities, to the DOE Strategic Plan and other DOE guidance, and to user community requirements in the development of the Jefferson Lab scientific program. Also includes "institutional citizenship" within the DOE lab system and with respect to the state and local communities.
- Identification and cultivation of core competencies that eliminate unnecessary duplication and overlap in advancing the national/international knowledge and resource base.
- Leadership on national/international scale in mission related competencies.

Managerial Effectiveness: (40%)

- Cost effective use of available resources to optimize benefits for the nation's scientific agenda.
- Consistently meets or exceeds established commitments
- Responsible programmatic, EH&S and administrative balance
- Cost reductions through process improvement and reengineering

Organizational Culture (20%)

- Advocacy of quality principles to enhance staff performance
- Open, accurate, timely internal and external communications, including communications with the state and local communities
- Promotes diversity
- Sustained high morale and productivity

Spallation Neutron Source

8A. Overview

Objective: Contribute effectively to the successful design and construction of the Spallation Neutron Source (SNS) at ORNL.

Key Indicator (30 points):

8.0 Schedule performance on the SNS project.

8B. Performance Evaluation Plan

Introduction

Jefferson Lab has joined several other national labs in an important DOE initiative—the design and construction of the Spallation Neutron Source (SNS) at ORNL. As a partner in the SNS project, JLab will contribute its significant expertise in SRF technology while continuing to develop and refine that expertise in preparation for other projects, including the planned 12GeV upgrade. Specifically, JLab is responsible for designing, prototyping, constructing, and performing project management for the superconducting proton linac for the SNS. To ensure this project is successful, JLab must collaborate effectively with project partners, including LANL—who is responsible for providing the accelerator physics and RF for the SNS linac.

8.0 Schedule performance on the SNS project. [30 points]

Methodology

Specific milestones will be selected after the most recent SNS Construction Project Review for the purpose of measuring JLab contract performance, as mutually agreed by the DOE Contracting Officer and the JLab SNS Project Manager. The metric will measure the average completion of the selected milestones at the mid-point and end of the fiscal year for which they were selected.

Scoring

The percentage of available points earned shall be numerically equal to 100 plus 10 times the number of months (including fractions thereof) that the average completion of the selected milestones is ahead. The result will be constrained to lie between 0 and 100. For the mid-year score, the coefficient shall be 20 rather than 10. The Contracting Officer may make allowance for project plan changes and/or schedule adjustments associated with causes beyond JLab's control.

Performance Level	Adjectival Rating	% of Assigned Points
Ahead of or on schedule, or behind schedule by not more than one month	Outstanding	90 to 100
Behind schedule by more than 1 month but not more than 2 months	Excellent	80 to < 90
Behind schedule by more than 2 months but not more than 3 months	Good	70 to < 80
Behind schedule by more than 3 months but not more than 4 months	Marginal	60 to < 70
Behind schedule by more than 4 months but not more than 5 months	Unsatisfactory (Passing)	50 to < 60
Behind schedule by more than 5 months	Unsatisfactory (Failing)	0 to < 50

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE 1 OF 3
2. AMENDMENT/MODIFICATION NO. A200		3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)	CODE		
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005			(X)	9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
			X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$3,205,000

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	1-31-01

1. The amount obligated under this contract is increased by \$3,205,000.00 and is changed from \$1,062,637,670.15 to \$1,065,842,670.13. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	5,000.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	(13,000.00)	5,741,000.00	16,264,575.00
WA	KB0102011	(90,000.00)	40,849,000.00	120,584,411.00
WA	KB0102011 (AIP A001)	(3,000.00)	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	(1,000.00)	299,000.00	1,829,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	(11,000.00)	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	(2,000.00)	1,016,000.00	1,016,000.00
WA	KB0102012	(40,000.00)	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	(1,000.00)	542,000.00	1,662,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0102000	0.00	0.00	665,000.00

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150111J CR40)	660,000.00	2,160,000.00	4,025,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	2,270,000.00	12,520,000.00	22,452,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	160,000.00	160,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	387,000.00	387,000.00	387,000.00
WA	KX0201000	45,000.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	(1,000.00)	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
TOTAL		<u>\$3,205,000.00</u>	<u>\$89,098,434.06</u>	<u>\$1,065,842,670.13</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. A201		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		CODE		7. ADMINISTERED BY (If other than Item 6) CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$4,195,922.33

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES**

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 2-28-01

Contract No. DE-AC05-84ER40150

Modification No. A201

Page 2 of 3

1. The amount obligated under this contract is increased by \$4,195,922.33 and is changed from \$1,065,842,670.13 to \$1,070,038,592.46. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,741,000.00	16,264,575.00
WA	KB0102011	0.00	40,849,000.00	120,584,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	0.00	299,000.00	1,829,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	1,018,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	542,000.00	1,662,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00

Received Time Mar. 8. 2:21PM

Contract No. DE-AC05-84ER40150

Modification No. A201

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Fund Type	B&R Code	Change	FY01	To Date
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	4,195,922.33	4,195,922.33	4,195,922.33
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	100,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150111J CR40)	0.00	2,160,000.00	4,025,000.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	12,520,000.00	22,452,000.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	160,000.00	160,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
TOTAL		<u>\$4,195,922.33</u>	<u>\$93,294,356.39</u>	<u>\$1,070,038,592.46</u>

2. All other terms and conditions of the contract remain unchanged and in full force and effect.

Received Time Mar. 8. 2:21PM

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 3	
2. AMENDMENT/MODIFICATION NO. A202		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
				X		9B. DATED (SEE ITEM 11)	
						10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$3,775,897.31

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds," and Performance Measures Clause H.31 and Clause H.32
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	3-28-01

1. The amount obligated under this contract is increased by \$3,775,897.31 and is changed from \$1,070,038,592.46 to \$1,073,814,489.77. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,741,000.00	16,264,575.00
WA	KB0102011	(250,000.00)	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	330,000.00	629,000.00	2,159,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	(80,000.00)	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	542,000.00	1,662,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY10R133700)	42,456.31	42,456.31	42,456.31
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	4,195,922.33	4,195,922.33
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	50,000.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	852,300.00	3,012,300.00	4,877,300.00
TC	820201000 (OP TSKER40150TJAAA CR40)	2,831,141.00	15,351,141.00	25,283,141.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	160,000.00	160,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
TOTAL		<u>\$3,775,897.31</u>	<u>\$97,070,253.70</u>	<u>\$1,073,814,489.77</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 3 PAGES	
2. AMENDMENT/MODIFICATION NO. A203		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
				(X)		9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				X		10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$44,328

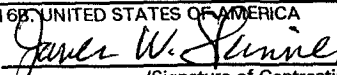
**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR		16B. UNITED STATES OF AMERICA	
(Signature of person authorized to sign)		 (Signature of Contracting Officer)	
15C. DATE SIGNED		16C. DATE SIGNED	
		4-30-01	

1. The amount obligated under this contract is increased by \$44,328 and is changed from \$1,073,814,489.77 to \$1,073,858,817.77. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,741,000.00	16,264,575.00
WA	KB0102011	0.00	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	0.00	629,000.00	2,159,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	542,000.00	1,662,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00

Fund Type	B&R Code	Change	FY01	To Date
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	42,456.31	42,456.31
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	4,195,922.33	4,195,922.33
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	3,012,300.00	4,877,300.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	15,351,141.00	25,283,141.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	160,000.00	160,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
TF	GD0703000	44,328.00	44,328.00	44,328.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
TOTAL		<u>\$44,328.00</u>	<u>\$97,114,581.70</u>	<u>\$1,073,858,817.77</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 1

2. AMENDMENT/MODIFICATION NO.

M204

3. EFFECTIVE DATE

See Block 16C.

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

7. ADMINISTERED BY (If other than Item 6)

CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

August 3, 1984

CODE

FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X In accordance with clause I.110 DEAR 970.5204-78 entitled "Laws, Regulations, and DOE Directives (June 1997)"

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

1. The purpose of this modification is to revise Appendix E (DOE Directives) in its entirety.

2. All other terms and conditions remain unchanged and in full force and effect.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

Jerry P. Draayer, President

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR OFFEROR


(Signature of person authorized to sign)

15C. DATE SIGNED

6/11/01

16B. UNITED STATES OF AMERICA


(Signature of Contracting Officer)

16C. DATE SIGNED

6/11/01

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. A205		3. EFFECTIVE DATE See Block 16C.		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)		9A. AMENDMENT OF SOLICITATION NO.	
CODE		FACILITY CODE		9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 11) August 3, 1984	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$1,995,567

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 5-31-01

Contract No. DE-AC05-84ER40150

Modification No. A205

Page 2 of 4

1. The amount obligated under this contract is increased by \$1,995,567 and is changed from \$1,073,858,817.77 to \$1,075,854,384.77. As a result, the first sentence of paragraph (a) of Article 31, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	168,000.00	168,000.00	168,000.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,741,000.00	16,264,575.00
WA	KB0102011	0.00	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	0.00	629,000.00	2,159,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	542,000.00	1,662,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Received Time Jun. 5. 8:59AM

Contract No. DE-AC05-84ER40150

Modification No. A203

Page 3 of 4

Fund Type	B&R Code	Change	FY01	To Date
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	42,456.31	42,456.31
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	4,195,922.33	4,195,922.33
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	334,776.00	3,347,076.00	5,212,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	17,111.00	17,111.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	1,705,680.00	17,056,821.00	26,988,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	(230,000.00)	(70,000.00)	(70,000.00)
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	5,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00

Received Time Jun. 5. 8:59AM

Contract No. DE-AC05-84ER40150

Modification No. A205

Page 4 of 4

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY01</u>	<u>To Date</u>
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
TF	CD0703000	0.00	44,328.00	44,328.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
	TOTAL	<u>\$1,995,567.00</u>	<u>\$99,110,148.70</u>	<u>\$1,075,854,384.77</u>

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT		CONTRACT ID CODE		PAGE 1 OF 2 PAGES	
2. AMENDMENT/MODIFICATION NO. M206		3. EFFECTIVE DATE See Block 16C.		5. PROJECT NO. (if applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (if other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		(X)		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

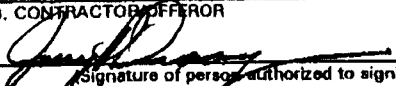

N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: In accordance with Clause H.31 entitled "Performance Measure Review" and Clause H.32 entitled "Use of Objectives Standards of Performance,"
	D. OTHER (Specify type of modification and authority) Self-Assessment and Performance Evaluation."

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGE

Except as provided herein, all terms and conditions of the document referenced in Item 8A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Jerry P. Draayer, President		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 6/11/01	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 6/11/01

Received Time Jun.20. 10:17AM

DE-AC05-84ER40150

Modification M206

Page 2 of 2

1. The purpose of this modification is to revise Appendix B (Performance Evaluation by Performance-Based Metrics) as follows:
 - a. Revise Performance Measure 5.6 entitled "Fraction of High-value Facilities Rated 'Highly Protected Risk' (4 points)." Attachment 1 is the replacement page that incorporates the revised Performance Measure 5.6.
 - b. Revise Performance Measure 6.6 entitled "Stores Inventory Rate (1 point)": Attachment 2 is the replacement page that incorporates the revised Performance Measure 6.6.
 - c. Revise Performance Measure 6.13 entitled "Average Procurement Cycle time to award a simplified purchase order ($\$0 < \$100,000$) (3 points)." Attachment 3 is the replacement page that incorporates the revised Performance Measure 6.13.
2. All other terms and conditions remain unchanged and in full force and effect.

- A facility is a separate building and its contents
- A facility is high-value if it has a maximum credible fire loss of \$1 million or more
- A facility is high-value if it is mission essential
- A facility is mission essential if its maximum credible fire loss would result in more than a three month programmatic delay

Data collection: Facilities which are high-value are determined by the Plant Engineering Director, with DOE Site Office concurrence. Information required to classify the level of fire protection is collected by representatives from the technical services group of SURA's fire and property insurance carrier.

Data evaluation: Performed by representatives from the technical services group of SURA's fire and property insurance carrier. Evaluations are scheduled in even-numbered fiscal years only, and the same score is used in the succeeding odd-numbered fiscal year. Evaluations may be conducted in an odd-numbered fiscal year if either SURA or DOE believes that there has been a substantive change in the Highly Protected Risk status; in this event, the new score will be used in the odd-numbered year.

Performance measure custodian: EH&S Reporting

Performance measurement validation: Site Office concurrence ensures that the high-value facilities are correctly identified. The fact that the same insurance carrier classifies the fire protection risk and provides SURA's fire coverage assures accuracy in the classification.

Scoring: Based directly on fraction of high-value facilities meeting criteria

Performance Level (Score)	Adjectival Rating	% of Assigned Points†
0.95 to 1.00	Outstanding	90 to 100
0.90 to < 0.95	Excellent	80 to <90
0.85 to < 0.90	Good	70 to <80
0.80 to < 0.85	Marginal	60 to <70
0.75 to < 0.80	Unsatisfactory (Poor)	50 to <60
0.00 to < 0.75	Unsatisfactory (Failing)	0 to <50

† In each adjectival category, points are assigned by linear interpolation between the ranges listed.

Attachment 2

Scoring:

Performance Level = [(Value of property not located during each of the inventories / Corresponding value of property for each class inventoried) * 100]

Submeasure	Frequency	Odd Years	Even Years
6.5a Capital Equipment	biannual	2 points	0 pts. (not conducted)
6.5b Sensitive	annual	2 points	4 points
6.5c Stores	annual	1 point	1 point

Performance Level	Adjectival Rating	% of Maximum Assigned Points
< 1%	Outstanding	100
≥ 1% to < 1.5%	Excellent	85
≥ 1.5% to < 2%	Good	70
≥ 2.0% to < 3%	Marginal	55
≥ 3.0% to < 4.0%	Unsatisfactory (Poor)	40
≥ 4.0%	Unsatisfactory (Failing)	0

6.6 Stores Inventory Reduction Rate. [1 point]

Reduction in the inventory of the Technical Stockroom by an amount equating to 10% by September 30, 2001.

Scoring

Performance Level = Percentage of Technical Stockroom inventory reduction measured by dividing the total dollar stockroom inventory transferred to Property Management by the dollar value of the JLab Technical Stockroom shelf inventory as of October 1, 2000.

Performance Level	Adjectival Rating	% of Maximum Assigned Points
≥ 11 %	Outstanding	100
≥ 10 % to < 11 %	Excellent	85
≥ 9 % to < 10 %	Good	70
≥ 8 % to < 9 %	Marginal	60
≥ 7 % to < 8 %	Unsatisfactory (Poor)	50
< 7 %	Unsatisfactory (Failing)	0

6.11 Number of occurrences that the monthly Cost Management Report (533M) had to be resubmitted to the DOE Contracting Officer to correct erroneous data reported by the Lab. [1 point]

6.12 Number of travel expense reports taken from a 10% random sample of Department audited expense reports that contained an error exceeding \$100 that was not detected at the time the expense report was originally audited by Business Services. [1 point]

PROCUREMENT (6 points)

Objective: Assure procurement functions are carried out so as to be cost effective, meet contractual requirements, satisfy customers' needs, and meet socioeconomic goals.

6.13 Average procurement cycle time to award a simplified purchase order (\$0 < \$100,000). [3 points]

6.14 Percent of total available purchasing dollars awarded to: small business concerns; small women-owned business concerns; and small disadvantaged business concerns. [3 points]

HUMAN RESOURCES AND SERVICES (6 points)

Objective: Attract and retain a diverse workforce capable of successfully executing Jefferson Lab's mission. Provide a workplace environment conducive to employee well-being and growth. Maintain innovative compensation practices aligned with the market place to attract and retain a diverse, well-trained workforce. Maintain innovative and cost-effective health care programs aligned with the commercial market place for similarly situated workforce programs. Provide a comprehensive program of library, publications, and records management services in support of Lab activities.

6.15a Percent of action oriented diversity commitments, as established in the Affirmative Action Plan (AAP) completed during the fiscal year. [1 point]

6.15b Representation of protected classes (PC) within each EEO-1 category at the end of the fiscal year compared to the beginning of the fiscal year (adjusted for voluntary separations). [1 point]

6.16 Sustainable EEOC charges. [1 point]

6.17 Achieve compensation positions aligned with market practices to reflect the Lab's mid-market compensation philosophy. [1 point]

6.18 Percent of three-year rolling average of annual increases in premium cost relative to market. [1 point]

PROCUREMENT (6 points)

6.13 Average procurement cycle time to award a simplified purchase order (\$0 <\$100,000). [3 points]

Introduction:

Procurement cycle time is based on the date the purchase requisition is received in Procurement until the action is awarded, but does not include the time required to establish new vendors or time required by Jefferson Lab requisitioners to correct deficient requisition documentation.

Scoring:

Performance Level	Adjectival Rating	% of Maximum Assigned Points
Less than 11 Days	Outstanding	100
> 11 to < 15 Days	Excellent	85
> 15 to < 20 Days	Good	70
> 20 to < 25 Days	Marginal	55
> 25 to < 30 Days	Unsatisfactory (Poor)	40
Greater than 30 Days	Unsatisfactory (Failing)	0

6.14 Percent of total available purchasing dollars awarded to: small business concerns; small women-owned business concerns; and small disadvantaged business concerns. [3 points]

Introduction:

- Total estimated dollar value of all planned subcontracting (to Large and Small Business concerns): \$58,600,000.
- "Total Available Purchasing Dollars" excludes: (i) awards to foreign sources; and (ii) decentralized credit card purchases.
- Awards to women-owned business concerns, and small disadvantaged business concerns will be counted for every Submeasure that is applicable.

FY01 Peak Performance Goals (PPG):

- Submeasure 6.14a: Award 46% of total available purchasing dollars (est. \$26,956,000) to small business concerns. (1 point)
- Submeasure 6.14b: Award 6% of available purchasing dollars (est. \$3,516,000) to women owned business concerns. (1 point)
- Submeasure 6.14c: Award 7% of available purchasing dollars (est. \$4,102,000) to small disadvantaged business concerns. (1 point)

Contract No. DE-AC05-84ER40150

Modification No. A207

Page 2 of 4

1. The amount obligated under this contract is increased by \$1,145,102 and is changed from \$1,075,854,384.77 to \$1,076,999,486.77. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	323,600.00	491,600.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,741,000.00	16,264,575.00
WA	KB0102011	0.00	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	0.00	629,000.00	2,159,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	454,002.00	996,002.00	2,116,002.00
WA	KB0301020 (EQU EQU)	340,000.00	340,000.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Received Time Jul. 6. 10:08AM

Contract No. DE-AC05-84ER40150

Modification No. A207

Page 3 of 4

Fund Type	B&R Code	Change	FY01	To Date
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	2,500.00	2,500.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	42,456.31	42,456.31
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	4,195,922.33	4,195,922.33
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	3,347,076.00	5,212,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	17,111.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	17,056,821.00	26,988,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	(70,000.00)	(70,000.00)
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	25,000.00	25,000.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00

Contract No. DE-AC05-84ER40150

Modification No. A207

Page 4 of 4

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY01</u>	<u>To Date</u>
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
TF	CD0703000	0.00	44,328.00	44,328.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
	TOTAL	<u>\$1,145,102.00</u>	<u>\$100,255,250.70</u>	<u>\$1,076,999,486.77</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 4

2. AMENDMENT/MODIFICATION NO.

A208

3. EFFECTIVE DATE

See Block 16C

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

Department of Energy

Site Office

12000 Jefferson Avenue

Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

se \$2,107,154.36

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

CONTRACTOR/OFFEROR

15C. DATE SIGNED

James W. Skinner, Contracting Officer

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

7-31-01

Contract No. DE-AC05-84ER40150

Modification No. A208

Page 2 of 4

The amount obligated under this contract is increased by \$2,107,154.36 and is changed from \$1,076,999,486.77 to \$1,079,106,641.13. As a result, the first sentence of paragraph (a) of Clause I.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	491,600.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,741,000.00	16,264,575.00
WA	KB0102011	0.00	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	0.00	629,000.00	2,159,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB0102000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	996,002.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	340,000.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

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Fund Type	B&R Code	Change	FY01	To Date
WA	KP1401030	225,000.00	225,000.00	225,000.00
WA	KP1401030 (EQU EQU)	295,000.00	295,000.00	295,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	2,500.00	2,500.00
'A	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY10R133700)	0.00	42,456.31	42,456.31
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	40403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	40403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	194,174.75	4,390,097.08	4,390,097.08
3T	400403309 (AGPN0001401-F-0171A)	392,979.61	392,979.61	392,979.61
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	3,347,076.00	5,212,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	17,111.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	1,000,000.00	18,056,821.00	27,988,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	(70,000.00)	(70,000.00)
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	25,000.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY01</u>	<u>To Date</u>
VA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
TF	GD0703000	0.00	44,328.00	44,328.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
	TOTAL	<u>\$2,107,154.36</u>	<u>\$102,362,405.06</u>	<u>\$1,079,106,641.13</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. A209		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				X		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
						10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$1,054,271.84

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED 8/31/01

Contract No. DE-AC05-84ER40150

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1. The amount obligated under this contract is increased by \$1,054,271.84 and is changed from \$1,079,106,641.13 to \$1,080,160,912.97. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	491,600.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	5,000.00	5,746,000.00	16,269,575.00
WA	KB0102011	0.00	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	0.00	629,000.00	2,159,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,890,000.00	19,658,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	996,002.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	340,000.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

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Fund Type	B&R Code	Change	FY01	To Date
WA	KP1401030	(170,000.00)	55,000.00	55,000.00
WA	KP1401030 (EQU EQU)	170,000.00	465,000.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	24,000.00	24,000.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	2,500.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	42,456.31	42,456.31
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	4,390,097.08	4,390,097.08
3T	400403309 (AGPN0001401-F-0171A)	0.00	392,979.61	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	24,271.84	24,271.84	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150H111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	3,347,076.00	5,212,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	17,111.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	1,000,000.00	19,056,821.00	28,988,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	(70,000.00)	(70,000.00)
2Y	600301010 (AGR-2001-W003)	1,000.00	1,000.00	1,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY01</u>	<u>To Date</u>
2Y	600305000 (OP AGR2000W002)	0.00	25,000.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	346,000.00	346,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	0.00	100,000.00	100,000.00
TF	GD0703000	0.00	44,328.00	44,328.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
	TOTAL	<u>\$1,054,271.84</u>	<u>\$103,416,676.90</u>	<u>\$1,080,160,912.97</u>

Received Time Sep. 5. 4:42PM

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE 1 OF 4 PAGES

2. AMENDMENT/MODIFICATION NO. A210	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606	CODE	7. ADMINISTERED BY (If other than Item 6)	CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;

(c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$2,895,922.33

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

James W. Skinner, Contracting Officer

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

9/28/01

Contract No. DE-AC05-84ER40150

Modification No. A210

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1. The amount obligated under this contract is increased by \$2,895,922.33 and is changed from \$1,080,160,912.97 to \$1,083,056,835.30. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY01	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	491,600.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	5,000.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,746,000.00	16,269,575.00
WA	KB0102011	0.00	40,599,000.00	120,334,411.00
WA	KB0102011 (AIP A001)	0.00	1,288,000.00	4,088,000.00
WA	KB0102011 (GPP)	354,000.00	983,000.00	2,513,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	(354,000.00)	4,536,000.00	19,304,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQU EQU01CG)	0.00	1,016,000.00	1,016,000.00
WA	KB0102012	0.00	18,324,000.00	55,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	(80,000.00)	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	996,002.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	340,000.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	100,000.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

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Fund Type	B&R Code	Change	FY01	To Date
WA	KP1401030	0.00	55,000.00	55,000.00
WA	KP1401030 (EQU EQU)	0.00	465,000.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	24,000.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	2,500.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	42,456.31	42,456.31
3T	400403109 (AGRSURA-2001-W004)	2,835,922.33	2,835,922.33	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	4,390,097.08	4,390,097.08
3T	400403309 (AGPN0001401-F-0171A)	0.00	392,979.61	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	24,271.84	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	50,000.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150I111J CR40)	0.00	3,347,076.00	5,212,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	17,111.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	19,056,821.00	28,988,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	(70,000.00)	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	1,000.00	1,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00

Received Time Oct.10. 8:31AM

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY01</u>	<u>To Date</u>
2Y	600305000 (OP AGR2000W003)	0.00	6,000.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	25,000.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	13,934.06	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	387,000.00	387,000.00
WA	KX0201000	0.00	45,000.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	52,000.00	398,000.00	398,000.00
WA	FS1001500	0.00	46,000.00	46,000.00
WA	FS1005100	(25,000.00)	75,000.00	75,000.00
WA	FS1002300	33,000.00	33,000.00	33,000.00
TF	GD0703000	0.00	44,328.00	44,328.00
FG	GD0703000	0.00	145,500.00	145,500.00
FG	GD0703000 (EQU)	0.00	115,000.00	115,000.00
TOTAL		<u>\$2,895,922.33</u>	<u>\$106,312,599.23</u>	<u>\$1,083,056,835.30</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. A211		3. EFFECTIVE DATE 10/1/01		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$5,077,000.00

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	10-4-01

Contract No. DE-AC05-84ER40150

Modification No. A211

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1. The amount obligated under this contract is increased by \$5,077,000.00 and is changed from \$1,083,056,835.30 to \$1,088,133,835.30. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	0.00	16,269,575.00
WA	KB0102011	2,600,000.00	2,600,000.00	122,934,411.00
WA	KB0102011 (AIP A001)	50,000.00	50,000.00	4,138,000.00
WA	KB0102011 (GPP)	0.00	0.00	2,513,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	0.00	19,304,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	0.00	1,016,000.00
WA	KB0102012	600,000.00	600,000.00	55,689,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	0.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB000000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB000000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Contract No. DE-AC05-84ER40150

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	0.00	0.00	55,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	0.00	4,390,097.08
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	75,000.00	75,000.00	5,287,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	1,327,000.00	1,327,000.00	30,315,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000(OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	0.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	180,000.00	180,000.00	578,000.00
WA	FS1001500	22,000.00	22,000.00	68,000.00
WA	FS1005100	100,000.00	100,000.00	175,000.00
WA	FS1002300	0.00	0.00	33,000.00
WA	FS1002400	63,000.00	63,000.00	63,000.00
WA	FS1009300	60,000.00	60,000.00	60,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
TOTAL		<u>\$5,077,000.00</u>	<u>\$5,077,000.00</u>	<u>\$1,088,133,835.30</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. A212		3. EFFECTIVE DATE SEE BLOCK 16C.	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
					10B. DATED (SEE ITEM 11) August 3, 1984
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$4,091,695.12

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James D. Baxter, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	10/23/01

Contract No. DE-AC05-84ER40150

Modification No. A212

Page 2 of 4

1. The amount obligated under this contract is increased by \$4,091,695.12 and is changed from \$1,088,133,835.30 to \$1,092,225,530.42. As a result, the first sentence of paragraph (a) of Clause I.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	0.00	16,269,575.00
WA	KB0102011	1,100,000.00	3,700,000.00	124,034,411.00
WA	KB0102011 (AIP A001)	0.00	50,000.00	4,138,000.00
WA	KB0102011 (GPP)	0.00	0.00	2,513,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	0.00	19,304,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	0.00	1,016,000.00
WA	KB0102012	400,000.00	1,000,000.00	56,089,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	0.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Contract No. DE-AC05-84ER40150

Modification No. A212

Page 3 of 4

Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	0.00	0.00	55,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	51,695.15	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	50,000.00	125,000.00	5,337,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	2,490,000.00	3,817,000.00	32,805,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00

Received Time Oct.24. 9:34AM

Contract No. DE-AC05-84ER40150

Modification No. A212

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	0.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	180,000.00	578,000.00
WA	FS1001500	0.00	22,000.00	68,000.00
WA	FS1005100	0.00	100,000.00	175,000.00
WA	FS1002300	0.00	0.00	33,000.00
WA	FS1002400	0.00	63,000.00	63,000.00
WA	FS1009300	0.00	60,000.00	60,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
	TOTAL	<u>\$4,091,695.15</u>	<u>\$9,168,695.15</u>	<u>\$1,092,225,530.45</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 4 PAGES	
2. AMENDMENT/MODIFICATION NO. A213		3. EFFECTIVE DATE October 24, 2001		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
				X		9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				X		10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$2,000,000

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return 2 copies to the issuing office.

**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES**

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA <i>James W. Skinner</i> (Signature of Contracting Officer)	16C. DATE SIGNED 10/30/01

Contract No. DE-AC05-84ER40150

Modification No. A213

Page 2 of 4

1. The amount obligated under this contract is increased by \$2,000,000 and is changed from \$1,092,225,530.45 to \$1,094,225,530.45. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	350,000.00	350,000.00	16,619,575.00
WA	KB0102011	1,225,000.00	4,925,000.00	125,259,411.00
WA	KB0102011 (AIP A001)	0.00	50,000.00	4,138,000.00
WA	KB0102011 (GPP)	0.00	0.00	2,513,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	0.00	19,304,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	0.00	1,016,000.00
WA	KB0102012	425,000.00	1,425,000.00	56,514,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	0.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4Y	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Contract No. DE-AC05-84ER40150

Modification No. A213

Page 3 of 4

Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	0.00	0.00	55,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	125,000.00	5,337,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	3,817,000.00	32,805,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00

Received Time Nov. 5. 3:53PM

Contract No. DE-AC05-84ER40150

Modification No. A213

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	0.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	180,000.00	578,000.00
WA	FS1001500	0.00	22,000.00	68,000.00
WA	FS1005100	0.00	100,000.00	175,000.00
WA	FS1002300	0.00	0.00	33,000.00
WA	FS1002400	0.00	63,000.00	63,000.00
WA	FS1009300	0.00	60,000.00	60,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
	TOTAL	<u>\$2,000,000.00</u>	<u>\$11,168,695.15</u>	<u>\$1,094,225,530.45</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE
PAGE 1 OF 4 PAGES

2. AMENDMENT/MODIFICATION NO. A214
3. EFFECTIVE DATE November 1, 2001
4. REQUISITION/PURCHASE REQ. NO.
5. PROJECT NO. (If applicable)

6. ISSUED BY U.S. Department of Energy
TJNAF Site Office
12000 Jefferson Avenue
Newport News, VA 23606
7. ADMINISTERED BY (If other than Item 6)
CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
Southeastern Universities Research Association, Inc.
1200 New York Avenue, NW
Washington, D.C. 20005
9A. AMENDMENT OF SOLICITATION NO.
9B. DATED (SEE ITEM 11)
10A. MODIFICATION OF CONTRACT/ORDER NO.
DE-AC05-84ER40150
10B. DATED (SEE ITEM 11)
August 3, 1984
CODE FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$3,250,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED 16B. UNITED STATES OF AMERICA <i>James W. Skinner</i> (Signature of Contracting Officer)
	16C. DATE SIGNED 11-08-01

Contract No. DE-AC05-84ER40150

Modification No. A214

Page 2 of 4

1. The amount obligated under this contract is increased by \$3,250,000 and is changed from \$1,094,225,530.45 to \$1,097,475,530.45. As a result, the first sentence of paragraph (a) of Clause I.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	100,000.00	450,000.00	16,719,575.00
WA	KB0102011	2,100,000.00	7,025,000.00	127,359,411.00
WA	KB0102011 (AIP A001)	0.00	50,000.00	4,138,000.00
WA	KB0102011 (GPP)	0.00	0.00	2,513,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	0.00	19,304,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	0.00	1,016,000.00
WA	KB0102012	1,050,000.00	2,475,000.00	57,564,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	0.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Received Time Nov.19. 10:25AM

Contract No. DE-AC05-84ER40150

Modification No. A214

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	0.00	0.00	55,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY10R133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	125,000.00	5,337,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	3,817,000.00	32,805,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Received Time Nov.19. 10:25AM

Contract No. DE-AC05-84ER40150

Modification No. A214

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	0.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	180,000.00	578,000.00
WA	FS1001500	0.00	22,000.00	68,000.00
WA	FS1005100	0.00	100,000.00	175,000.00
WA	FS1002300	0.00	0.00	33,000.00
WA	FS1002400	0.00	63,000.00	63,000.00
WA	FS1009300	0.00	60,000.00	60,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
	TOTAL	<u>\$3,250,000.00</u>	<u>\$14,418,695.15</u>	<u>\$1,097,475,530.45</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

PAGE OF PAGES

1 4

2. AMENDMENT/MODIFICATION NO.

A215

3. EFFECTIVE DATE

November 18, 2001

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS



The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers



is extended,



is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$12,375,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

X

Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED

(Signature of person authorized to sign)

(Signature of Contracting Officer)

11-28-01

Contract No. DE-AC05-84ER40150

Modification No. A215

Page 2 of 4

1. The amount obligated under this contract is increased by \$12,375,000 and is changed from \$1,097,475,530.45 to \$1,109,850,530.45. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	1,500,000.00	1,950,000.00	18,219,575.00
WA	KB0102011	5,000,000.00	12,025,000.00	132,359,411.00
WA	KB0102011 (AIP A001)	0.00	50,000.00	4,138,000.00
WA	KB0102011 (GPP)	100,000.00	100,000.00	2,613,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	100,000.00	100,000.00	19,404,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQU EQU01CG)	0.00	0.00	1,016,000.00
WA	KB0102012	1,800,000.00	4,275,000.00	59,364,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	0.00	2,116,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Received Time Dec. 4. 11:52AM

Contract No. DE-AC05-84ER40150

Modification No. A215

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	100,000.00	100,000.00	155,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	125,000.00	250,000.00	5,462,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	3,600,000.00	7,417,000.00	36,405,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Contract No. DE-AC05-84ER40150
Modification No. A215
Page 4 of 4

<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	0.00	45,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	50,000.00	230,000.00	628,000.00
WA	FS1001500	0.00	22,000.00	68,000.00
WA	FS1005100	0.00	100,000.00	175,000.00
WA	FS1002300	0.00	0.00	33,000.00
WA	FS1002400	0.00	63,000.00	63,000.00
WA	FS1009300	0.00	60,000.00	60,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
	TOTAL	<u>\$12,375,000.00</u>	<u>\$26,793,695.15</u>	<u>\$1,109,850,530.45</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. M216		3. EFFECTIVE DATE October 24, 2001		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

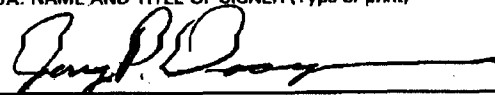
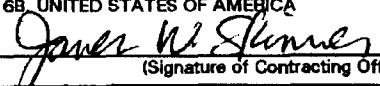
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Deletion of the requirement for DOE security clearances for contractor personnel
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) 		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR Jerry P. Draayer, President (Signature of person authorized to sign)	15C. DATE SIGNED 12/12/01	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 12/14/01

Contract No. DE-AC05-84ER40150

Modification No. M216

Page 2 of 2

1. The purpose of this modification is to delete the following clauses from Section I of the contract:

I.61 DEAR 952.204-2, SECURITY (SEP 1997)

I.62 DEAR 952.204-70, CLASSIFICATION/DECLASSIFICATION (SEP 1997)

I.63 DEAR 952.204-74, FOREIGN OWNERSHIP, CONTROL OR INFLUENCE OVER
CONTRACTOR (APR 1984)

I-73 DEAR 970.5204-1(b), COUNTERINTELLIGENCE (SEP 1997)

2. All other terms and conditions remain the same.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. A217		3. EFFECTIVE DATE November 18, 2001		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
				10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$45,187,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE FOLLOWING PAGES

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED 12/31/01

Contract No. DE-AC05-84ER40150

Modification No. A217

Page 2 of 4

1. The amount obligated under this contract is increased by \$45,187,000 and is changed from \$1,109,850,530.45 to \$1,155,037,530.45. As a result, the first sentence of paragraph (a) of Clause I.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	2,950,000.00	4,900,000.00	21,169,575.00
WA	KB0102011	22,956,000.00	34,981,000.00	155,315,411.00
WA	KB0102011 (AIP A001)	1,250,000.00	1,300,000.00	5,388,000.00
WA	KB0102011 (GPP)	460,000.00	560,000.00	3,073,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	4,850,000.00	4,950,000.00	24,254,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	59,000.00	59,000.00	1,075,000.00
WA	KB0102012	11,450,000.00	15,725,000.00	70,814,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	450,000.00	450,000.00	2,566,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Received Time Jan. 8. 10:39AM

Contract No. DE-AC05-84ER40150

Modification No. A217

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	240,000.00	340,000.00	395,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	250,000.00	5,462,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	7,417,000.00	36,405,821.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Received Time Jan. 8. 10:39AM

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 4	
2. AMENDMENT/MODIFICATION NO. A218		3. EFFECTIVE DATE See Block 16C.		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (if applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (if other than item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

Increase \$11,391,150

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED 1/31/02

Contract No. DE-AC05-84ER40150

Modification No. A218

Page 2 of 4

1. The amount obligated under this contract is increased by \$11,391,150 and is changed from \$1,155,037,530.45 to \$1,166,428,680.45. As a result, the first sentence of paragraph (a) of Clause I.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	4,900,000.00	21,169,575.00
WA	KB0102011	0.00	34,981,000.00	155,315,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	5,388,000.00
WA	KB0102011 (GPP)	0.00	560,000.00	3,073,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,950,000.00	24,254,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	59,000.00	1,075,000.00
WA	KB0102012	0.00	15,725,000.00	70,814,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	450,000.00	2,566,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Received Time Feb. 4. 9:59AM

Contract No. DE-AC05-84ER40150

Modification No. A218

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	(125,000.00)	215,000.00	270,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	366,250.00	616,250.00	5,828,326.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	11,209,900.00	18,626,900.00	47,615,721.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Contract No. DE-AC05-84ER40150

Modification No. A218

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	50,000.00	95,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	(45,000.00)	307,000.00	705,000.00
WA	FS1001500	0.00	44,000.00	90,000.00
WA	FS1005100	0.00	232,000.00	307,000.00
WA	FS1005500	0.00	48,000.00	48,000.00
WA	FS1002300	(15,000.00)	(15,000.00)	18,000.00
WA	FS1002400	0.00	170,000.00	170,000.00
WA	FS1009300	0.00	101,000.00	101,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
	TOTAL	\$11,391,150.00	\$83,371,845.15	\$1,166,428,680.45

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. A219	3. EFFECTIVE DATE See Block 16C.	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606	CODE	7. ADMINISTERED BY (If other than Item 6) CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
			10B. DATED (SEE ITEM 11) August 3, 1984
CODE	FACILITY CODE		
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS			

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$19,417

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James D. Baxter, Jr., Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA (Signature of Contracting Officer)	16C. DATE SIGNED 2/28/02

Contract No. DE-AC05-84ER40150

Modification No. A219

Page 2 of 4

1. The amount obligated under this contract is increased by \$19,417 and is changed from \$1,166,428,680.45 to \$1,166,448,097.45. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	4,900,000.00	21,169,575.00
WA	KB0102011	0.00	34,981,000.00	155,315,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	5,388,000.00
WA	KB0102011 (GPP)	0.00	560,000.00	3,073,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	4,950,000.00	24,254,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	59,000.00	1,075,000.00
WA	KB0102012	0.00	15,725,000.00	70,814,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	450,000.00	2,566,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

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Modification No. A219
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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	0.00	215,000.00	270,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IH50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IH50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IH50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
3Y	400409900 (AGRSURA2001W002)	19,417.00	19,417.00	19,417.00
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150111J CR40)	0.00	0.00	5,828,326.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	18,626,900.00	47,615,721.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
ZY	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Received Time Mar. 4. 12:03PM

Contract No. DE-AC05-84ER40150
Modification No. A219
Page 4 of 4

Fund Type	B&R Code	Change	FY02	To Date
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	50,000.00	95,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	307,000.00	705,000.00
WA	FS1001500	0.00	44,000.00	90,000.00
WA	FS1005100	0.00	232,000.00	307,000.00
WA	FS1005500	0.00	48,000.00	48,000.00
WA	FS1002300	0.00	(15,000.00)	18,000.00
WA	FS1002400	0.00	170,000.00	170,000.00
WA	FS1009300	0.00	101,000.00	101,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
TOTAL		\$19,417.00	\$83,391,262.15	\$1,166,448,097.45

Note(s):

- ____ Jerry Conley ext. 7142
- ____ Wayne Skinner ext. 7143
- ____ Barbara Morgan ext. 7139
- ____ Rick Korynta ext. 7145
- ✓ Don Baxter ext. 7144
- ____ Andre Betha ext. 5095
- ____ Monique Perry ext. 7141

Sender:

FAX Transmittal Sheet is Page 1 of 6 pages

Telephone No: 4-1015

Office/Location:

To: Cheryl Etko

Date: 3/2

Telefax No. (757) 269-7146 • Verification No. (757) 269-7140

U.S. Department of Energy
Jefferson Lab Site Office
12000 Jefferson Avenue
Newport News, Virginia 23606



MENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE OF PAGES

1 59

AMENDMENT/MODIFICATION NO.

3. EFFECTIVE DATE

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

M220

10/1/01

6. ISSUED BY

CODE

7. ADMINISTERED BY (If other than Item 6)

CODE

U.S. Department of Energy

TJNAF Site Office

12000 Jefferson Avenue

Newport News, VA 23606

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Southeastern Universities Research Association, Inc.

1200 New York Avenue, NW

Washington, D.C. 20005

(X)

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO.

DE-AC05-84ER40150

10B. DATED (SEE ITEM 11)

X

CODE

FACILITY CODE

August 3, 1984

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: In accordance with clause H.32 entitled "Use of Objective Standards of Performance Self-Assessment and Performance Evaluation" and
	D. OTHER (Specify type of modification and authority) Clause H.31 "Performance Measure Review"

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

1. The purpose of this modification is to revise Appendix B (Performance Evaluation by Performance-Based Metrics) in its entirety and establish the performance Evaluation Plan for FY 2002.

2. All other terms and conditions remain unchanged and in full force and effect.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

Jerry P. Draayer, President

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

James W. Skinner, Contracting Officer

15B. CONTRACTOR/OFFEROR

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA

16C. DATE SIGNED


(Signature of person authorized to sign)

3-05-02


(Signature of Contracting Officer)

3-5-02

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 3 PAGES
2. AMENDMENT/MODIFICATION NO. A221	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (if applicable)
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606	7. ADMINISTERED BY (if other than Item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)	9A. AMENDMENT OF SOLICITATION NO.
			9B. DATED (SEE ITEM 11)
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150
			10B. DATED (SEE ITEM 11) August 3, 1984
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (if required)

Increase \$11,090,000

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause I.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.**14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)**
SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	3-29-02

Contract No. DE-AC05-84ER40150

Modification No. A221

Page 2 of 4

1. The amount obligated under this contract is increased by \$11,090,000 and is changed from \$1,166,448,097.45 to \$1,177,538,097.45. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	870,000.00	5,770,000.00	22,039,575.00
WA	KB0102011	6,279,000.00	41,260,000.00	161,594,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	5,388,000.00
WA	KB0102011 (GPP)	0.00	560,000.00	3,073,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	881,000.00	5,831,000.00	25,135,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	59,000.00	1,075,000.00
WA	KB0102012	2,780,000.00	18,505,000.00	73,594,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	95,000.00	545,000.00	2,661,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

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Modification No. A221

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	60,000.00	275,000.00	330,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
3Y	400409900 (AGRSURA2001W002)	0.00	19,417.00	19,417.00
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER401501111J CR40)	0.00	616,250.00	5,828,326.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	18,626,900.00	47,615,721.00
TC	DP0404012 (OP)	0.00	0.00	957,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Received Time Apr.11. 11:24AM

Contract No. DE-AC05-84ER40150

Modification No. A221

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	50,000.00	95,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	307,000.00	705,000.00
WA	FS1001500	0.00	44,000.00	90,000.00
WA	FS1005100	0.00	232,000.00	307,000.00
WA	FS1005500	0.00	48,000.00	48,000.00
WA	FS1002300	0.00	(15,000.00)	18,000.00
WA	FS1002400	0.00	170,000.00	170,000.00
WA	FS1009300	0.00	101,000.00	101,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
SA	WN0219080 (AGRSURA2002W001)	125,000.00	125,000.00	125,000.00
	TOTAL	<u>\$11,090,000.00</u>	<u>\$94,481,262.15</u>	<u>\$1,177,538,097.45</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE 1 OF 4 PAGES
2. AMENDMENT/MODIFICATION NO. A222	3. EFFECTIVE DATE See Block 16C.	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606	CODE	7. ADMINISTERED BY (If other than item 6)	CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005		(X)	9A. AMENDMENT OF SOLICITATION NO.	
			9B. DATED (SEE ITEM 11)	
		X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
			10B. DATED (SEE ITEM 11) August 3, 1984	
CODE	FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

- ☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
- Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
- (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$5,089,442.23

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	4-30-02

Contract No. DE-AC05-84ER40150

Modification No. A222

Page 2 of 4

1. The amount obligated under this contract is increased by \$5,089,442.23 and is changed from \$1,177,538,097.45 to \$1,182,627,539.68. As a result, the first sentence of paragraph (a) of Clause I.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,770,000.00	22,039,575.00
WA	KB0102011	0.00	41,260,000.00	161,594,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	5,388,000.00
WA	KB0102011 (GPP)	0.00	560,000.00	3,073,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	80,000.00	5,911,000.00	25,215,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	59,000.00	1,075,000.00
WA	KB0102012	0.00	18,505,000.00	73,594,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	545,000.00	2,661,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

Contract No. DE-AC05-84ER40150

Modification No. A222

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	300,000.00	575,000.00	630,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE500000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE500000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE500000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
3T	400403309 (AGRN00014-01-F-0171C)	1,313,592.23	1,313,592.23	1,313,592.23
3Y	400409900 (AGRSURA2001W002)	0.00	19,417.00	19,417.00
YA	KJ0102000	0.00	0.00	420,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150I111J CR40)	108,750.00	725,000.00	5,937,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	3,287,100.00	21,914,000.00	50,902,821.00
TC	DP0404012 (OP)	0.00	0.00	957,004.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Received Time May. 9. 3:07PM

Contract No. DE-AC05-84ER40150

Modification No. A222

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	50,000.00	95,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	307,000.00	705,000.00
WA	FS1001500	0.00	44,000.00	90,000.00
WA	FS1005100	0.00	232,000.00	307,000.00
WA	FS1005500	0.00	48,000.00	48,000.00
WA	FS1002300	0.00	(15,000.00)	18,000.00
WA	FS1002400	0.00	170,000.00	170,000.00
WA	FS1009300	0.00	101,000.00	101,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
SA	WN0219080 (AGRSURA2002W001)	0.00	125,000.00	125,000.00
	TOTAL	<u>\$5,089,442.23</u>	<u>\$99,570,704.38</u>	<u>\$1,182,627,539.68</u>

MAY 21 2002

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 2 PAGES		
2. AMENDMENT/MODIFICATION NO. M223		3. EFFECTIVE DATE See Block 16C.		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

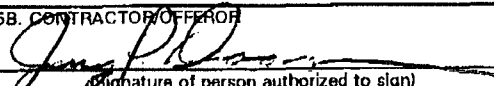

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) In accordance with Clause H.29 and Clause I.18 DEAR 970.5204-13

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James W. Skinner, Contracting Officer	
15B. CONTRACTOR OFFEROR  Signature of person authorized to sign		16B. UNITED STATES OF AMERICA  Signature of Contracting Officer	
15C. DATE SIGNED 5/15/2002		16C. DATE SIGNED 5-15-02	

Contract No. DE-AC05-84ER40150

Modification No. M223

Page 2 of 2

3. The purpose of this modification is to:

- a. Incorporate the Actual Central Office Expenses for FY00 through FY01 under Clause H.29 entitled "SURA CENTRAL OFFICE EXPENSES." Paragraph 2 of Clause H.29 is revised as follows:

"2. A schedule of the central office expenses is as follows:

<u>Fiscal Year</u>	<u>Estimated Central Office Expenses</u>	<u>Actual Central Office Expenses</u>
11/01/1999 – 9/30/2000	\$1,515,834	\$1,415,979
10/01/2000 – 9/30/2001	\$1,653,637	\$1,728,427
10/01/2001 – 9/30/2002	TBD	TBD
10/01/2002 – 9/30/2003	TBD	TBD
10/01/2003 – 9/30/2004	TBD	TBD"

- b. Incorporate the fixed fee payable to the Contractor for FY01 under Clause I.78 entitled "DEAR 870.5204-13 ALLOWABLE COSTS AND FIXED FEE (MANAGEMENT AND OPERATING CONTRACTS)(MAR 1988)(DEVIATION)." The first section of paragraph (b) of Clause I.78 is revised as follows:

"(b) Fixed-Fee. The fixed-fee payable to the Contractor for the performance of the work under this contract commencing November 1, 1999, is as follows:

- (1) From November 1, 1999 through September 30, 2000 – \$341,917
- (2) From October 1, 2000 through September 30, 2001 – \$373,000
- (3) From October 1, 2001 through September 30, 2002 – TBD
- (4) From October 1, 2002 through September 30, 2003 – TBD
- (5) From October 1, 2003 through September 30, 2004 – TBD"

4. All other terms and conditions remain unchanged and in full force and effect.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 4 PAGES	
2. AMENDMENT/MODIFICATION NO. A224		3. EFFECTIVE DATE See Block 16C.		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:
 (a) By completing items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted;
 or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

Increase \$100,000

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
X	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Increase in obligation of funds in accordance with Clause 1.79 "Obligation of Funds."
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☒ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>James W. Skinner</i> (Signature of Contracting Officer)	5/31/02

Contract No. DE-AC05-84ER40150

Modification No. A242

Page 2 of 4

1. The amount obligated under this contract is increased by \$100,000 and is changed from \$1,182,627,539.68 to \$1,182,727,539.68. As a result, the first sentence of paragraph (a) of Clause 1.79, "Obligation of Funds," is changed to read as follows:

Obligation of Funds. The amount presently obligated by the Government with respect to this contract is as follows:

Fund Type	B&R Code	Change	FY02	To Date
TE	EW3110022	0.00	0.00	50,000.00
YA	EB550000	0.00	0.00	491,600.00
WA	KA0301000	0.00	0.00	90,000.00
WA	KA0101000	0.00	0.00	450,400.00
WA	KA0401000	0.00	0.00	13,910.00
WA	KA0401010	0.00	0.00	50,000.00
WA	KA0403011	0.00	0.00	40,000.00
WA	KA043012	0.00	0.00	5,000.00
WA	KB0101000	0.00	0.00	148,882,000.00
WA	KB0101000 (EQU)*	0.00	0.00	9,652,959.00
WA	KB0102000	0.00	0.00	249,512,000.00
WA	KB0101021	0.00	5,770,000.00	22,039,575.00
WA	KB0102011	0.00	41,260,000.00	161,594,411.00
WA	KB0102011 (AIP A001)	0.00	1,300,000.00	5,388,000.00
WA	KB0102011 (GPP)	0.00	560,000.00	3,073,000.00
WA	KB0102011 (EQU)	0.00	0.00	0.00
WA	KB0102012 (AIP A001)	0.00	0.00	0.00
WA	KB0102012 (EQU)	0.00	5,911,000.00	25,215,398.00
WA	KB0102012 (01CG)	0.00	0.00	0.00
WA	KB0102012 (EQUEQU01CG)	0.00	59,000.00	1,075,000.00
WA	KB0102012	0.00	18,505,000.00	73,594,425.00
WA	KB0102000 (AIP)(A001)	0.00	0.00	1,600,000.00
WA	KB01020000 (GPP)(A001)	0.00	0.00	1,280,000.00
WA	KB0181020	0.00	0.00	938,000.00
WA	KB0181015	0.00	0.00	5,772,000.00
WA	KB0300000	0.00	0.00	2,789,700.00
WA	KB0301020	0.00	545,000.00	2,661,002.00
WA	KB0301020 (EQU EQU)	0.00	0.00	340,000.00
WA	KC0301030	0.00	0.00	200,000.00
YA	392100000	0.00	0.00	653,176.00
WA	39KB00000 (87R203)	0.00	0.00	312,939,618.00
WA	39KB00000 (GPE300)	0.00	0.00	645,000.00
WA	35KB01000 (EQU99ZZ)	0.00	0.00	51,050,000.00
WA	39KB00000 (AIP101000)	0.00	0.00	375,000.00
YA	35KC07000 (Recast KJ0102 EQU)	0.00	0.00	44,745.00
WA	35KS01000	0.00	0.00	6,861.00
4V	KT0101011	0.00	0.00	49,618.00
YA	KT0101012	0.00	0.00	496,000.00
YA	KT0101014	0.00	0.00	380,000.00
4V	KT0101012	0.00	0.00	33,000.00
4V	KT0101018	0.00	0.00	40,000.00
TF	KP0302000	0.00	0.00	13,000.00
WA	KP1402010	0.00	0.00	175,600.00
WA	KP1402010 (EQU)	0.00	0.00	339,400.00

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Modification No. A224

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Fund Type	B&R Code	Change	FY02	To Date
WA	KP1401030	0.00	575,000.00	630,000.00
WA	KP1401030 (EQU EQU)	0.00	0.00	465,000.00
WA	KS0101000	0.00	0.00	4,000.00
WA	KS0102211	0.00	0.00	5,000.00
TF	KV0101012	0.00	0.00	280,000.00
TF	KV0101014	0.00	0.00	612,000.00
YA	KC0204010	0.00	0.00	11,943.00
YA	KC0702000	0.00	0.00	665,000.00
YA	KC0701030	0.00	0.00	5,000.00
YA	KT0101017	0.00	0.00	412,000.00
YA	KT0101018	0.00	0.00	31,350.00
YA	KT0101019	0.00	0.00	5,000.00
YA	KT0101025	0.00	0.00	9,702.00
YA	KU0100000	0.00	0.00	484,000.00
YA	KT0201013	0.00	0.00	87,300.00
YA	WB0000000	0.00	0.00	116,000.00
1Y	39WB00000 (IHE50000A001)	0.00	0.00	988,085.00
1Y	39WB00000 (IHE50000A002)	0.00	0.00	29,800.00
1Y	39WB00000 (IHE50000A003)	0.00	0.00	80,100.00
1Y	650102000 (AGR-2001-S002)	0.00	0.00	24,000.00
1Y	650102000 (AGR94-002)	0.00	0.00	253,469.00
1Y	650102000 (OP AGR00-004)	0.00	0.00	11,250.00
1Y	650102000 (AGRS003)	0.00	0.00	2,500.00
YA	AT2540000	0.00	0.00	5,000.00
3Y	400412000 (AGRY1OR133700)	0.00	0.00	42,456.31
3T	400403109 (AGRSURA-2001-W004)	0.00	0.00	2,835,922.33
3T	400403309 (OP AGR000096)	0.00	0.00	11,744,355.00
3T	400403309 (OP AGR27199MPHS058)	0.00	0.00	12,135.92
3T	400403309 (OP AGR-00-F-0439)	0.00	0.00	9,029,126.21
3T	400403309 (AGRN0001401-F-0171)	0.00	51,695.15	4,441,792.23
3T	400403309 (AGPN0001401-F-0171A)	0.00	0.00	392,979.61
3T	400403309 (AGRN00014-01-F-0171B)	0.00	0.00	24,271.84
3T	400403309 (AGRN00014-01-F-0171C)	0.00	1,313,592.23	1,313,592.23
3Y	400409900 (AGRSURA2001W002)	0.00	19,417.00	19,417.00
WA	KJ0102000	100,000.00	100,000.00	520,346.00
WA	KJ0200000	0.00	0.00	50,909.00
WA	KJ0101030	0.00	0.00	150,000.00
TC	820101000 (OP)	0.00	0.00	599,853.00
TC	820201000 (OP)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019)	0.00	0.00	42,733.00
TC	820201000 (OP TSKER40150TJAAA)	0.00	0.00	0.00
TC	820201000 (OP TSKER40150I111J)	0.00	0.00	0.00
TC	820201000 (OP TSKER4015000019 CR40)	0.00	0.00	(42,733.00)
TC	820201000 (OP TSKER40150I111J CR40)	0.00	725,000.00	5,937,076.00
TC	820201000 (OP TSKER 40150JLAAA CR40)	0.00	0.00	17,111.00
TC	820201000 (OP TSKER40150TJAAA CR40)	0.00	21,914,000.00	50,902,821.00
TC	DP0404012 (OP)	0.00	0.00	857,864.00
TC	39DP04000	0.00	0.00	644,134.00
TC	39DP04040	0.00	0.00	395,000.00
TC	39DP08170	0.00	0.00	(70,000.00)
2Y	600301010 (AGR-2001-W003)	0.00	0.00	1,000.00

Received Time Jun. 4. 3:01PM

Contract No. DE-AC05-84ER40150

Modification No. A224

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<u>Fund Type</u>	<u>B&R Code</u>	<u>Change</u>	<u>FY02</u>	<u>To Date</u>
2Y	600301010 (OP AGR98003105)	0.00	0.00	200,000.00
2Y	600305000 (OP AGR99W001)	0.00	0.00	494,000.00
2Y	600305000 (OP AGR2000W003)	0.00	0.00	20,000.00
2Y	600305000 (OP AGR2000W002)	0.00	0.00	30,000.00
2Y	600302000 (OP AGR2000W001)	0.00	0.00	90,000.00
SA	YN1901000	0.00	0.00	98,652.00
WA	EL1703000 (OPFWP #EL17039)	0.00	0.00	25,000.00
WA	KB0401022	0.00	0.00	200,000.00
WA	KB0401052	0.00	0.00	387,000.00
WA	KX0201000	0.00	50,000.00	95,000.00
WA	FS1000000	0.00	0.00	0.00
WA	FS1001100	0.00	307,000.00	705,000.00
WA	FS1001500	0.00	44,000.00	90,000.00
WA	FS1005100	0.00	232,000.00	307,000.00
WA	FS1005500	0.00	48,000.00	48,000.00
WA	FS1002300	0.00	(15,000.00)	18,000.00
WA	FS1002400	0.00	170,000.00	170,000.00
WA	FS1009300	0.00	101,000.00	101,000.00
TF	GD0703000	0.00	0.00	44,328.00
FG	GD0703000	0.00	0.00	145,500.00
FG	GD0703000 (EQU)	0.00	0.00	115,000.00
SA	WN0219080 (AGRSURA2002W001)	0.00	125,000.00	125,000.00
	TOTAL	<u>\$100,000.00</u>	<u>\$99,670,704.38</u>	<u>\$1,182,727,539.68</u>

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE 1 OF 2 PAGES	
2. AMENDMENT/MODIFICATION NO. <div style="text-align: center;">M225</div>		3. EFFECTIVE DATE <div style="text-align: center;">See Block 16C.</div>		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (if applicable)	
6. ISSUED BY U.S. Department of Energy TJNAF Site Office 12000 Jefferson Avenue Newport News, VA 23606		7. ADMINISTERED BY (If other than Item 6)		CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) Southeastern Universities Research Association, Inc. 1200 New York Avenue, NW Washington, D.C. 20005				(X)		9A. AMENDMENT OF SOLICITATION NO.	
						9B. DATED (SEE ITEM 11)	
				X		10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC05-84ER40150	
						10B. DATED (SEE ITEM 11) August 3, 1984	
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 9 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

N/A

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) In accordance with Clause H.29 and Clause I.18 DEAR 970.5204-13

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

SEE FOLLOWING PAGES

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		James W. Skinner, Contracting Officer	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
	6/11/2002		6/11/02
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

Contract No. DE-AC05-84ER40150
Modification No. M224
Page 2 of 2

1. The purpose of this modification is to:

- a. Incorporate the Estimated Central Office Expenses for FY02 under Clause H.29 entitled "SURA CENTRAL OFFICE EXPENSES." Paragraph 2 of Clause H.29 is revised as follows:

"2. A schedule of the central office expenses is as follows:

<u>Fiscal Year</u>	<u>Estimated Central Office Expenses</u>	<u>Actual Central Office Expenses</u>
11/01/1999 – 9/30/2000	\$1,515,834	\$1,415,979
10/01/2000 – 9/30/2001	\$1,653,637	\$1,728,427
10/01/2001 – 9/30/2002	\$1,745,000	TBD
10/01/2002 – 9/30/2003	TBD	TBD
10/01/2003 – 9/30/2004	TBD	TBD"

- b. Incorporate the fixed fee payable to the Contractor for FY02 under Clause I.78 entitled "DEAR 870.5204-13 ALLOWABLE COSTS AND FIXED FEE (MANAGEMENT AND OPERATING CONTRACTS)(MAR 1988)(DEVIATION)." The first section of paragraph (b) of Clause I.78 is revised as follows:

"(b) Fixed-Fee. The fixed-fee payable to the Contractor for the performance of the work under this contract commencing November 1, 1999, is as follows:

- (1) From November 1, 1999 through September 30, 2000 – \$341,917
- (2) From October 1, 2000 through September 30, 2001 – \$373,000
- (3) From October 1, 2001 through September 30, 2002 – \$373,000
- (4) From October 1, 2002 through September 30, 2003 – TBD
- (5) From October 1, 2003 through September 30, 2004 – TBD"

2. All other terms and conditions remain unchanged and in full force and effect.